

? logon

\*\*\* It is now 2008/09/25 17:45:57 \*\*\*  
(Dialog time 2008/09/25 16:45:57)

```
>>>HIGHLIGHT set on as '' ''
>>>100 is not in the range between 1 and 50, original value 30 is used.
IGOR705 is set ON as an alias for
2,9,15,16,20,35,65,77,99,148,160,233,256,275,347,348,349,474,475,476,58
10,613,621,624,634,636,810,813
IGORMEDIC is set ON as an alias for
5,34,42,43,73,74,129,130,149,155,442,444,455
IGORINSUR is set ON as an alias for 169,625,637
IGORBANK is set ON as an alias for 139,267,268,625,626
IGORTRANS is set ON as an alias for 6,63,80,108,637
IGORSHOUCOUPON is set ON as an alias for 47,570,635,PAPERSMJ,PAPERSEU
IGORINVEN is set ON as an alias for 6,7,8,14,34,94,434
IGORFUNDTRANS is set ON as an alias for 608
```

? b igor705

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>>> 7 does not exist
>>> 233 does not exist
>>> 476 does not exist
>>>3 of the specified files are not available
25sep08 15:46:07 User268082 Session D110.1
$0.00 0.238 DialUnits File415
$0.00 Estimated cost File415
$0.03 INTERNET
$0.03 Estimated cost this search
$0.03 Estimated total session cost 0.238 DialUnits
```

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SYSTEM:OS      - DIALOG OneSearch
File    2:INSPEC 1898-2008/Aug W4
          (c) 2008 Institution of Electrical Engineers
File    9:Business & Industry(R) Jul/1994-2008/Sep 16
          (c) 2008 Gale/Cengage
File   15:ABI/Inform(R) 1971-2008/Sep 25
          (c) 2008 ProQuest Info&Learning
File   16:Gale Group PROMT(R) 1990-2008/Sep 16
          (c) 2008 Gale/Cengage
*File 16: Because of updating irregularities, the banner
update (UD=) may vary.
File   20:Dialog Global Reporter 1997-2008/Sep 25
          (c) 2008 Dialog
File   35:Dissertation Abs Online 1861-2008/Apr
          (c) 2008 ProQuest Info&Learning
File   65:Inside Conferences 1993-2008/Sep 25
          (c) 2008 BLDSC all rts. reserv.
File   99:Wilson Appl. Sci & Tech Abs 1983-2008/Aug
          (c) 2008 The HW Wilson Co.
File  148:Gale Group Trade & Industry DB 1976-2008/Sep 23
          (c) 2008 Gale/Cengage

```

\*File 148: The CURRENT feature is not working in File 148.  
See HELP NEWS148.

File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group  
File 256:TecInfoSource 82-2008/Aug  
(c) 2008 Info.Sources Inc

# Save-2008-09-25\_135805

File 275:Gale Group Computer DB(TM) 1983-2008/Sep 16  
 (c) 2008 Gale/Cengage  
 File 347:JAPIO Dec 1976-2007/Dec(Updated 080328)  
 (c) 2008 JPO & JAPIO  
 File 348:EUROPEAN PATENTS 1978-200836  
 (c) 2008 European Patent Office  
 File 349:PCT FULLTEXT 1979-2008/UB=20080918|UT=20080911  
 (c) 2008 WIPO/Thomson  
 File 474:New York Times Abs 1969-2008/Sep 24  
 (c) 2008 The New York Times  
 File 475:Wall Street Journal Abs 1973-2008/Sep 24  
 (c) 2008 The New York Times  
 File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
 (c) 2002 Gale/Cengage  
 \*File 583: This file is no longer updating as of 12-13-2002.  
 File 610:Business Wire 1999-2008/Sep 25  
 (c) 2008 Business Wire.  
 \*File 610: File 610 now contains data from 3/99 forward.  
 Archive data (1986-2/99) is available in File 810.  
 File 613:PR Newswire 1999-2008/Sep 25  
 (c) 2008 PR Newswire Association Inc  
 \*File 613: File 613 now contains data from 5/99 forward.  
 Archive data (1987-4/99) is available in File 813.  
 File 621:Gale Group New Prod.Annou.(R) 1985-2008/Sep 03  
 (c) 2008 Gale/Cengage  
 File 624:McGraw-Hill Publications 1985-2008/Sep 25  
 (c) 2008 McGraw-Hill Co. Inc  
 \*File 624: Journal updates now current  
 File 634:San Jose Mercury Jun 1985-2008/Sep 21  
 (c) 2008 San Jose Mercury News  
 File 636:Gale Group Newsletter DB(TM) 1987-2008/Sep 17  
 (c) 2008 Gale/Cengage  
 File 810:Business Wire 1986-1999/Feb 28  
 (c) 1999 Business Wire  
 File 813:PR Newswire 1987-1999/Apr 30  
 (c) 1999 PR Newswire Association Inc

Set	Items	Description
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? s (buyer? or seller? or participant? or entit???) and ((marke (3n)  
 place ) or exchange or collaboration or collaborat???) and (notification  
 or notify???)

Processing  
 Processing  
 Processing  
 Processing  
 Processing  
 Processing  
 Processing

Processing  
 Processing  
 Processed 10 of 26 files ...  
 Processing  
 Processed 20 of 26 files ...

```
Completed processing all files
2875450 BUYER?
1298378 SELLER?
2537677 PARTICIPANT?
3518673 ENTIT???
9969 MARKE
13275867 PLACE
8 MARKE (3N) PLACE
13069345 EXCHANGE
1545606 COLLABORATION
2682051 COLLABORAT???
618125 NOTIFICATION
530525 NOTIFY???
S1 78410 (BUYER? OR SELLER? OR PARTICIPANT? OR ENTIT???) AND
(MARKE (3N) PLACE ) OR EXCHANGE OR COLLABORATION OR
COLLABORAT???) AND (NOTIFICATION OR NOTIFY???)
```

**? s (notification or notify???) (w) (problem or interruption or interrupt??? Or disrupt???)**

Processing  
Processing

```
Processing
Processed 10 of 26 files ...
Completed processing all files
618125 NOTIFICATION
530525 NOTIFY???
11416311 PROBLEM
291131 INTERRUPTION
795744 INTERRUPT???
1091676 DISRUPT???
S2 184 (NOTIFICATION OR NOTIFY???) (W) (PROBLEM OR INTERRUPTION
OR INTERRUPT??? OR DISRUPT???)
```

**? s (problem or interruption or interrupt??? Or disrupt???) (w)  
(communication or transmission or transaction)**

Processing  
Processing  
Processing  
Processing  
Processing

```
Processing
Processed 10 of 26 files ...
Processing
Processed 20 of 26 files ...
Completed processing all files
11416311 PROBLEM
291131 INTERRUPTION
795744 INTERRUPT???
1091676 DISRUPT???
5473906 COMMUNICATION
```

```

4115836 TRANSMISSION
3809179 TRANSACTION
S3      3784 ((PROBLEM OR INTERRUPTION OR INTERRUPT??? OR DISRUPT???)
              (W) (COMMUNICATION OR TRANSMISSION OR TRANSACTION))

```

**? s ((problem or interruption or interrupt??? Or disrupt???) (w)  
 (communication or transmission or transaction) (w) (notification or  
 notify???) (30n) flag???)**

Processing  
 Processing  
 Processing  
 Processing  
 Processing

```

Processing
Processed 10 of 26 files ...
Processing
Processed 20 of 26 files ...
Completed processing all files
11416311 PROBLEM
291131  INTERRUPTION
795744  INTERRUPT???
1091676 DISRUPT???
5473906 COMMUNICATION
4115836 TRANSMISSION
3809179 TRANSACTION
618125  NOTIFICATION
530525  NOTIFY???
1929403 FLAG???
S4      0 ((PROBLEM OR INTERRUPTION OR INTERRUPT??? OR DISRUPT???)
              (W) (COMMUNICATION OR TRANSMISSION OR TRANSACTION) (W)
              (NOTIFICATION OR NOTIFY???) (30N) FLAG???)

```

**? s s1 and s2 and s4**

```

78410 S1
184 S2
0 S4
S5    0 S1 AND S2 AND S4

```

**? s s1 and s2 and s3**

```

78410 S1
184 S2
3784 S3
S6    9 S1 AND S2 AND S3

```

**? t s6/3,k/1-9**

**Dialog eLink: Order File History**

6/3K/1 (Item 1 from file: 348)

DIALOG(R)File 348: EUROPEAN PATENTS

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01830144

**Terminal-to-terminal communication connection control method using an IP transfer network**

Endgerät-zu-Endgerät-Kommunikationssteuerungsverfahren unter Verwendung eines IP-Übertragungsnetzes

Procédé de contrôle de communication entre terminaux utilisant un réseau de transfert de données IP

**Patent Assignee:**

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AT; BE; BG; CH; LI; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE;  
IT; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR)
- **Miyaguchi Research Co. Ltd.;** (3270800)  
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AT; BE; BG; CH; LI; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE;  
IT; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR)

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**Legal Representative:**

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	Country	Number	Kind	Date	
Patent	EP	1489812	A2	20041222	(Basic)

ApplicationEP200410376020010308

PrioritiesJP200010502320000406JP200017923420000615JP200036708520001201

**Designated States:**

AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LI; LU; MC; NL; PT; SE; TR;

**Extended Designated States:**

AL; LT; LV; MK;

**Related Parent Numbers: Patent (Application):**EP 1143682 (EP 2001200880)**International Patent Class (V7):** H04L-029/06; H04M-007/00**Abstract Word****Count:** 90**NOTE:** 1**NOTE:** Figure number on first page: 1

Type	Pub. Date	Kind	Text
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Publication: English

Procedural: English

Appication: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200452	3142
SPEC A	(English)	200452	110974
Total Word Count (Document A) 114116			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 114116			

**Specification:** ...5, as shown in FIG. 2. It should be noted that the respective signalling points **exchange** such a signalling unit via the signal lines 98-24 to 98-27 and the...the telephone set 98-15, depending upon sorts of telephone sets. For instance, a confirmation **notification** with respect to a release completion may be issued from the telephone set 98-4... the signalling point 98-12 just after the above-explained Step X18. Alternatively, a confirmation **notification** with respect to the release completion may be issued from the signalling point 98-14... call(Step Z4). Furthermore, the connection server 1-6 produces such an IP packet for **notifying** such a fact that the message IAM is received. The connection server 1-6 returns...request call reception notice. The connection server 1-6 produces such an IP packet for **notifying** such a fact that the telephone set 1-2 issues the telephone set 1-2... In the procedure for accomplishing the terminal communication, the terminal 1-2 may send the **interrupt** request of the terminal communication to the media router 1-4, which is similar to... the first dependent type IP telephone set is taken up, such an IP packet for **notifying** a telephone call is transmitted from the first dependent type IP telephone set; a first...response, namely a DNS inquiry/response format, for example, RFC 1996(A Mechanism for Prompt **Notification** of Zone Changes). A DNS inquiry/response function 42 has such a function that the...the SCN interface 23-1 produces a data block 47-3 of FIG. 52 for **notifying** the telephone number by using the "call setting" analog signal to send out the data...the user of the analog telephone set 18-1 may be informed as sound for **notifying** that the telephone communication counter party takes up the handset of the analog telephone set...namely, end of telephone communication), and requests the public switched telephone network 26-2

to **notify** "use fee of public switched telephone network" which is required for the telephone communication between... ..and the node apparatus are connected to each other via IP communication lines, and may **exchange** data with each other by transmitting/receiving IP packets by using IP communication means owned ...in the Internet. Thus, the telephone domain name servers 313-2 and 314-2 may **exchange** their own information to each other, if necessary(Step P120).

When the table administration server... ..Next, the media router 212-2 returns the reception of the above-explained information for **notifying** the telephone reception in connection with two sets of the telephone numbers "Tel-No-1... ..router 212-2(Step P241). Then, the media router 212-2 notifies the off hook **notification** via the network node apparatus 209-2(Step P242), and further, via the telephone proxy... .."Tel-No-2".

The above-explained Step P245 corresponds to such a procedure capable of **notifying** response information for confirming a call setting operation, namely capable of **notifying** such a possibility that the telephone communication between the telephone set 213-5 and the...the telephone administration server on the destination side transmits the above-explained "ACM packet for **notifying** reception of IAM packet" via the telephone administration server on the transmission source to the... ..is being called. The telephone administration server on the destination side transmits "CPG packet for **notifying** call reception" to the telephone administration server on the transmission source, and then, the telephone... ..RLC packet for reporting reception of REL packet". The telephone administration server on the call **interrupt** side notifies the end report of the telephone communication to the media router on the... ..containing the line number, the communication time instant, and the telephone number, and then may **notify** the telephone communication record to both the operation managing server and the charging server. In... ..correspond to IP transfer networks having IP packet transfer functions. These IP transfer networks may **exchange** information by employing the IP communication means for transmitting/receiving IP packets inside the IP...and "L-1041" of the communication line. Both the telephone administration servers 1042 and 1065 **exchange** information with the IP communication means so as to confirm that these values are identical... ..telephone number "Tel-No-2" to the media router administration unit 1056 in order to **notify** a call setting acceptance with respect to the above-explained call setting operation(Steps A207... ..confirm the telephone reception(Step A211), and produces the telephone call sound. In order to **notify** that the telephone set 1012 is being called, the media router administration unit 1057 produces... ..each other via the communication line 1089.

The PBX 1085-2 implies a private branch **exchange** for storing a plurality of telephones. The PBX control unit 1085-1 is located between...set from the received information. The media router administration unit 1138 reports the off hook **notification** sent from the telephone set 1131 to the telephone set 1121(Step A325), and then...H383) are performed in a similar manner to those as explained in other embodiment. The

**notification** is reached to the telephone set 1224(Step H384). Then, media router administration unit 1265...

**Claims:** ...as claimed in Claim 1, wherein:

information of multicast receiver provider and information multicast service **buyer** are received via user service server, thereby to utilize to set a multicast tree structure... ..communication system as claimed in Claim 36, wherein: said multicast proxy server intermediates an information **exchange** between the sending terminal and the receiving terminal.

38. A cable voice broadcast communication system... ..Claim 36, wherein: said multicast proxy server and said sending work terminal intermediate an information **exchange** between the sending terminal and the receiving terminal.

39. A cable TV broadcast communication system... ..communication system as claimed in Claim 39, wherein: said multicast proxy server intermediates an information **exchange** between the sending terminal and the receiving terminal.

41. A cable TV broadcast communication system... ..Claim 39, wherein: said multicast proxy server and said sending work terminal intermediate an information **exchange** between the sending terminal and the receiving terminal.

42. A multicast communication system with employment... ..in said first IP transfer network via a multicast service proxy server so as to **notify** to said multicast service provider; and

said second sending work server collects sent results in said second IP transfer network via said multicast service proxy server so as to **notify** to said multicast service provider

47. A multicast communication method, wherein an IP transfer network includes...

**Dialog eLink:** Order File History

6/3K/2 (Item 2 from file: 348)

DIALOG(R)File 348: EUROPEAN PATENTS

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01796015

**Mobile electronic commerce system**

Mobiles elektronisches Handelssystem

Système de commerce électronique mobile



**Patent Assignee:**

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	Country	Number	Kind	Date	
Patent	EP	1467300	A1	20041013	(Basic)

ApplicationEP200401527819980813

PrioritiesJP9723056419970813

**Designated States:**

DE; FR; GB;

**Related Parent Numbers: Patent (Application):**EP 950968 (EP 98937807)**International Patent Class (V7):** G06F-017/60; H04Q-007/32;G07F-007/08**Abstract Word Count:** 150**NOTE:** 1**NOTE: Figure number on first page:** 1

Type	Pub. Date	Kind	Text
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Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200442	17631
SPEC A	(English)	200442	160348
Total Word Count (Document A) 177979			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 177979			

**Specification:** ...ticket 13816. The clerk then delivers the ticket 13816 to the consumer 13805 (13830) in **exchange** for cash (13829) and the ticket vending process is terminated.

Then, following the subtraction of... ..an amount that is charged by the supply side for voice communications carried by an **exchange** service operating via the wireless communication means. The settlement process that takes place in conjunction... ..pass through an entrance, a settlement process or an examination process is performed through the **exchange** of data by the electronic wallet and the supply side, so that rapid and accurate... ..a required amount for a communication that is performed via wireless communication means using an **exchange** service provided by the supply side; and

wherein the electronic wallet and the supply side ... ..card.

According to the invention cited in claim 21, the supply side includes communication line **exchange** means and electronic telephone card settlement means for settling the payment using the electronic telephone... ..with the electronic wallet;

communication means for communicating with the service providing means;

communication line **exchange** means for exchanging a plurality of communication lines;

a central processing unit for generating data...Since the owner of the electronic wallet can confirm the contents of a transaction, the **exchange** of a printed receipt, such as a statement of account, is not required, and a... ..73, the service providing means generates and then transmits, to the electronic wallet, a modification **notification** message for the modification of the contents of the electronic ticket; the electronic wallet, upon receiving the modification **notification** message, generates and then transmits, to the service providing means, a reaction selection message acknowledging... ..74, the service providing means generates and then transmits, to the electronic wallet, a modification **notification** message for the modification of the contents of the electronic ticket; the electronic wallet, upon receiving the modification **notification** message, generates and then transmits, to the service providing means, a reaction selection message requesting...invention;

Fig. 94A is a specific diagram showing the data structure of a clearing completion **notification** that is transmitted, in the ticket purchase processing, from the settlement system to the service... ..invention;

Fig. 94B is a specific diagram showing the data structure of a clearing completion **notification** that is transmitted, in the ticket purchase processing, from the service system to the ticket ... ..invention;

Fig. 99A is a specific diagram showing the data structure of a clearing completion **notification** that is transmitted, in the payment card purchase

processing, from the settlement system to the ... ..invention;

Fig. 99B is a specific diagram showing the data structure of a clearing completion **notification** that is transmitted, in the payment card purchase processing, from the service system to the... ..invention;

Fig. 105A is a specific diagram showing the data structure of a clearing completion **notification** that is transmitted, in the telephone card purchase processing, from the settlement system to the... ..invention;

Fig. 104B is a specific diagram showing the data structure of a clearing completion **notification** that is transmitted, in the telephone card purchase processing, from the service system to the ... ..present invention;

Fig. 129B is a specific diagram showing the data structure of a modification **notification** according to the embodiment of the present invention;

Fig. 131A is a specific diagram showing... ..Fig. 134A is a specific diagram showing the data structure of a refund clearing completion **notification** that is transmitted from the settlement system to the service system according to the embodiment... ..Fig. 133B is a specific diagram showing the data structure of a refund clearing completion **notification** that is transmitted from the service system to the ticket issuing system according to the... ..invention;

Fig. 136B is a specific diagram showing the data structure of a clearing completion **notification** that is transmitted, in the real credit settlement processing, from the transaction processing system to... ..invention;

Fig. 136C is a specific diagram showing the data structure of a clearing completion **notification** that is transmitted, in the real credit settlement processing, from the service system to the ... ..a ticket, a payment card or a telephone card using the service system, through the **exchange** of data with the transaction processing system 106 the service system presents the card number...transferring an electronic ticket, an electronic payment card or an electronic telephone card. For the **exchange** of transfer information, infrared communication or digital wireless telephone communication is employed by the mobile... ..terminal 102 (or the merchant terminal 103 or the automatic vending machine 104), and can **exchange** settlement information for setting the terms for the payment to be made using the electronic... ..on the LCD 502. At this time, the merchant terminal 102 uses infrared communication to **exchange** settlement information with the mobile user terminal 100, and performs the settlement process using the... ..the electronic telephone card accounting device employs accounting information received from the switch 801 to **exchange** settlement information with the mobile user terminal 100 and to use the electronic telephone card...900 and the merchant terminal 102, the merchant terminal 102 and the ATM switch 911 **exchange** ISDN data

packets. The ATM switch 911 converts the ISDN data packets to ATM packets... process for the credit card, and transmits to the service providing system a clearing completion **notification** 5905, which is a message indicating the clearing process has been completed.

Upon receiving the clearing completion **notification** 5905, the service providing system generates a clearing completion **notification** 5906, which is a message indicating the clearing process has been completed, and transmits it... ..generates an electronic ticket to be issued to the user.

Upon receiving the clearing completion **notification** 5906, the ticket issuing system generates and transmits to the service providing system a receipt... ..the ticket reference process, the service providing system, for example, weekly generates a usage condition **notification** 7100, which is a message **notifying** the ticket issuer of the ticket usage condition, and transmits it to the ticket issuing...8100, the service providing system generates, and transmits to the mobile user terminal, a modification **notification** 8101, which is a message employed to **notify** the user that the contents of the electronic ticket have been changed.

Upon receiving the modification **notification** 8101, the mobile user terminal outputs an audible signal to alert the user, and displays... ..electronic ticket and a message permitting the user to perform a complementary operation (display modification **notification**: 8102). When the date is changed, for example, a message describing the date change and... ..a reaction selection message 8104, which conveys the reaction of the user to the modification **notification** 8101, and transmits it to the service providing system. When the user selects "refuse" or... ..is received, and when "accept" is selected as the user's reaction to the modification **notification** 8101, the service providing system transmits to the mobile user terminal a modification instruction 8105 ... ..message 8204, the service providing system notes that the user's reaction to the modification **notification** 8101 is "refund," and transmits to the ticket issuing system a refund request 8205, which... ..The transaction server 1000 then transmits to the service providing system a refund clearing completion **notification** 8208, which is a message stating that the refund clearing process has been completed.

In accordance with the received refund clearing completion **notification** 8208, the service providing system generates a refund clearing completion **notification** 8209, which is a message stating that the refund clearing process has been completed, and transmits it to the ticket issuing system. Upon receiving the refund clearing completion **notification** 8209, the ticket issuing system generates and transmits to the service providing system a refund... ..clearing of the credit card, and transmits to the service providing system a clearing completion **notification** 6105, which is a message stating that the clearing process has been completed.

Upon receiving the clearing completion **notification 6105**, the service providing system generates a clearing completion **notification 6106**, which is a message stating that the clearing process has been completed, and transmits... ..an electronic payment card to be issued to the user.

Upon receiving the clearing completion **notification 6106**, the payment card issuing system generates, and transmits to the service providing system, a... payment card reference process, the service providing system, for example, weekly generates a usage condition **notification 7200**, which is a message **notifying** the payment card issuer of the payment card usage condition, and transmits it to the... ..clearing of the credit card, and transmits to the service providing system a clearing completion **notification 6305**, which is a message stating that the clearing process has been completed.

Upon receiving the clearing completion **notification 6305**, the service providing system generates a clearing completion **notification 6306**, which is a message stating that the clearing process has been completed, and transmits... ..an electronic telephone card to be issued to the user.

Upon receiving the clearing completion **notification 6306**, the telephone card issuing system generates, and transmits to the service providing system, a... ..receiving the call reception request 7005, the telephone terminal 115 outputs a call tone to **notify** the owner of the telephone terminal 115 (receiver) that a call has been received (display... ..telephone card reference process, the service providing system, for example, weekly generates a usage condition **notification 7300**, which is a message **notifying** the telephone card issuer of the telephone card usage condition, and transmits it to the...the transaction information server 1003, and performs the credit settlement process. Then, a clearing completion **notification 8417**, which is a message stating that the settlement process has been completed is transmitted to the service providing system.

Upon receiving the clearing completion **notification 8417**, the service providing system generates a clearing completion **notification 8418**, which is a message stating that the settlement process has been completed, and transmits it to the merchant terminal.

Upon receiving the clearing completion **notification 8418**, the merchant terminal generates a receipt message 8419, which corresponds to a receipt, and... ..system. The merchant terminal also displays on the LCD the contents of the clearing completion **notification 8419** in order to **notify** the operator (merchant) that the settlement process has been completed (display clearing completion: 8420).

Upon...

**Claims:** ...a required mount for a communication that is performed via wireless communication means using an **exchange** service provided by said supply side; and wherein said electronic wallet and said supply side ...

...mobile electronic commerce system according to claim 20, wherein said supply side includes communication line **exchange** means and electronic telephone card settlement means for settling said payment using said electronic telephone... ..with said electronic wallet;

communication means for communicating with said service providing means;

communication line **exchange** means for exchanging a plurality of communication lines;

a central processing unit for generating data...wherein said service providing means generates and then transmits, to said electronic wallet, a modification **notification** message for the modification of the contents of said electronic ticket; wherein said electronic wallet, upon receiving said modification **notification** message, generates and then transmits, to said service providing means, a reaction selection message acknowledging... ..wherein said service providing means generates and then transmits, to said electronic wallet, a modification **notification** message for the modification of the contents of said electronic ticket; wherein said electronic wallet, upon receiving said modification **notification** message, generates and then transmits, to said service providing means, a reaction selection message requesting... means; and

means for, in order to receive a product or a service from a **seller** or to obtain a permission, employing said electronic negotiable card with said wireless means in... ..inherent private key for providing a digital signature for data to be transmitted to said **seller** is included in said program for said electronic negotiable card, so that said electronic negotiable... ..168.An electronic wallet according to claim 165, further comprising:

means for, when a modification **notification** message for the changing of the contents of said program for said electronic negotiable card... ..169.An electronic wallet according to claim 165, further comprising:

means for, when a modification **notification** message that the contents of said electronic negotiable card is to be changed is received... ..least two functions for a payment card, a telephone card and a ticket.

171.A **seller** terminal comprising:

wireless communication means;

means for installing, from a predetermined agency, a program module that defines a settlement process performed by a **seller** when an electronic negotiable card is used; and

means for, in accordance with said program... ..electronic wallet via said wireless communication means and for performing said settlement process for said **seller** when said electronic negotiable card is employed.

172. An automatic vending machine comprising:

wireless communication... ..said electronic wallet by radio via said communication means; and

means for transmitting to a **seller** terminal, in order to install said program in said **seller** terminal, a program module that defines a settlement process performed by a **seller** when said program for said electronic negotiable card is employed.

175. A management machine for... ..said electronic wallet by radio via said communication means; and

means for transmitting to a **seller** terminal, in order to install said program in said **seller** terminal, a program module that defines a settlement process performed by a **seller** when said program for said electronic negotiable card is employed.

176. A management machine for... ..card program issuing agency according to claim 175, further comprising:

means for generating a modification **notification** message for the modification of said program for said negotiable card that is installed in... ..card program issuing agency according to claim 175, further comprising:

means for generating a modification **notification** message for the modification of said program for said negotiable card that is installed in said electronic wallet;

means for receiving from said electronic wallet, in response to said modification **notification** , a reaction selection message requesting a refund for said electronic negotiable card;

means for, upon... ..authorization private key and an accounting machine authorization private key, and which transmits to a **seller** terminal a settlement program, including a card authorization public key that is paired with said...

**Dialog eLink: Order File History**

6/3K/3 (Item 3 from file: 348)

DIALOG(R)File 348: EUROPEAN PATENTS

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00306223

**Data processing apparatus for connection to a common communication path in a data processing system.**

Datenverarbeitungsapparat zur Verbindung mit einem gemeinsamen Übertragungsbuss in einem Datenverarbeitungssystem.

Appareil de traitement de données pour raccordement avec un bus de communication commun dans un système de traitement de données.

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CLAIMS B	(German)	EPBBF1	515
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Total Word Count (All Documents) 14214			

**Specification:** ...positive confirmation of error-free reception, as well as additional responses to control or alter **the transaction**. This error monitoring significantly contributes to system reliability, requires little or no additional bandwidth, and... ..of the transaction (within predetermined limits) until the device is ready to respond, or may **notify** the device of its inability to respond at that time and thus free the communications...case of the terminals 14 and storage units 16, intermediate adapters 22, 24, respectively, may **be** provided in order to allow the connecting on a number of terminal or storage devices... ..the remainder of the device. As utilized herein, the term "device" denotes one or more **entities** connected to the communications path by a common interconnecting means. Thus, in Fig. 1A, the shown as interconnected for signal **exchange** purposes by path 78. However, it should be understood that path 78 will typically physically...RCLK of the same cycle.

A state diagram of the arbitration function performed by each **interconnecting** means is shown in Fig. 3D. The arbitration function remains in the idle state 150... ..its own device. In these modes, the device does not use any communications path lines **other than** BSY and NO ARB. Due to the potential of being selected as Slave, a... ..used to illustrate the manner in which the joint observation these signals efficiently control the **exchange** of information from device to device on the communications path.

On the power up all... that the joint operation of NO ARB and BSY regulates the orderly flow of control **exchange** as well as information transfer on the communications path.

Response Signals: ACK NO ACK, STALL...and "Pending Master", respectively) indicate various other devices which may assert signals on selected lines **of** the communications path during particular cycles.

The address comprises a single thirty-bit word designating... ..change from one transaction to another as described previously. In particular, in the "dual round **robin** arbitration" mode, during a given transaction, a device will arbitrate at a low priority level... commands, the specified permissible responses are ACK and NO ACK.

#### Interrupt and Identify Transactions

An **Interrupt transaction** is illustrated in Fig. 4D. The purpose of the transaction is to **notify** other devices (typically, processors) of the

need to interrupt current activities in order to take... ..address of an interrupt routine stored in memory which will establish the required action.

The **Interrupt transaction** comprises a Command/Address cycle, an Imbedded Arbitration cycle, and a data cycle in which... ..ACK.

Fig. 4E illustrates an Identify transaction. This transaction takes place in response to an **Interrupt transaction**. During the Command/Address cycle, the Current Master asserts the Identify command code on Information...receive the Master's acknowledgement to its transmission of the Interrupt Vector, it retransmits the **Interrupt transaction**.

A device may not participate in the interrupt arbitration cycle if it has detected a... ..are required to reissue the Interrupt Command. This prevents loss of previous posted interrupts.

### Interprocessor **Interrupt Transaction**

A simplified form of interrupt is provided for multiprocessor systems when one processor seeks to interrupt one or more other processors. The Interprocessor **Interrupt transaction**, illustrated in Fig. 4F, comprises a Command/Address cycle, an Imbedded Arbitration cycle, and a... ..to be directed; the Source Register contains a field that identifies the source of Interprocessor **Interrupt transaction** received by a processor.

During the Command/Address cycle, the interrupting processor asserts the interprocessor... ..the processor the overhead of later seeking an Interrupt Vector as is done on the **Interrupt transaction**. The permissible Slave confirmation signals are ACK and NO ACK as for any other multi... ..Broadcast Transaction

The Broadcast transaction, illustrated in Fig. 4H, offers a convenient means of broadly **notifying** devices on the communications path of significant events while avoiding the overhead costs of **Interrupt transactions**. During the Command/Address cycle of the transaction, the Current Master initiating the Broadcast... ..data cycles are shown. The data itself is asserted on data lines D(31:0) **by the Master**. As with Write-type transactions, the Slaves issue either ACK or **NO ACK** two cycles later.

### Register Complement

Fig. 7A shows the register file contained in the... ..204, an Error Interrupt Control Register 206, an Error Vector Register 208, an Interrupt Destination **Register 210**, an Interprocessor Interrupt Mask Register 212, an Interprocessor Interrupt Destination Register 214, and an Interprocessor... ..Soft Error Interrupt Enable bits, respectively. When set, they enable the device to generate an **Interrupt transaction** (referred to hereafter as **an Error Interrupt transaction**) whenever the Hard Error Summary Bit CSR(15) or Soft Error Summary bit CSR(14...

...Illegal Confirmation Error bit BER(16) indicates receipt of an illegal confirmation code during a **transaction**. Nonexistent Address bit BER(17) is set on receipt of a NO ACK response to a read-type or write-type command. Bus timeout bit BER(18) is **set if** a Pending Master ever waits more than a predetermined number of cycles to assume control...  
...asserts STALL on the response lines CNF(2:0) for more than a predetermined number of **cycles**. In the present implementation, the stall timeout occurs after 128 cycles. The RETRY timeout bit BER(20) is set if a Current Master **receives** a predetermined number of consecutive RETRY responses from a Slave with which it is communicating. In cycle of a Write-type or Broadcast transaction. The Command Parity Error bit BER(23) is set when a parity error is detected during a Command/Address cycle.

The Identify Vector... ...the NO ARB, BSY, or CNF lines at a time when the device is attempting to **assert** these lines. Finally, the Master Transmit Check Error bit BER(29) is set when the... ...If the Force bit EICR(20) is set, the interconnecting means will generate an Error **Interrupt transaction** at the levels specified by bits EICR(19:16). The Sent bit EICR(21) is... ...the Error Interrupt Vector.

The Interrupt Abort bit EICR(24) is set if an Error **Interrupt transaction** is not successful.

Turning now to Fig. 7F, the **Interrupt** Destination Register 210 contains an interrupt destination field IDR(15:0) which identifies which devices... ...the Master. The use of the RETRY as illustrated in Fig. 8B is appropriate when **it is** possible that the device might be **able to** perform the operation requested by the transaction, provided that the transaction is extended by a

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01626234

## SYSTEM FOR CONCURRENT OPTIMIZATION OF BUSINESS ECONOMICS AND CUSTOMER VALUE

SYSTEME DESTINE A L'OPTIMISATION SIMULTANEE DE L'ECONOMIE D'UNE ENTREPRISE ET DE LA VALEUR D'UN CLIENT

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HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;  
KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU;  
LY; MA; MD; ME; MG; MK; MN; MW; MX; MY;  
MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL;  
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**Detailed Description:**

...concurrently create benefits for at least two of the company, the customers and any other **entity** involved or any combination thereof. One aspect of the invention consists of a computer-implemented ... ..one

customer and to optimize value for at least one of customers, company and an **entity** other than said company. Some examples of some of the other aspects of the invention... ..of value for at least two of the customers, said company and at least one **entity** other than said company. The preferences may be used for assigning ranking between different products... ..store. It is another aspect of the invention that the company may not be the **seller** of any of said products. In another implementation, the company may not be the **seller** of any of said options. In yet another implementation, the company may offer at least... ..operate at least one of said systems. However, it is possible that at least one **entity** other than said company operates at least one of said systems. The systems for first... ..one of said m or p products may also be available for use by an **entity** other than said company. The company or an **entity** other than said company may define, at one or more times, at least one of... ..or more times, at least one of said k Chosen Products.

The company or an **entity** other than said company may select, at one or more times, at least one of... ..at least one of said p products. At least one of the company or an **entity** other than said company delivers to at least one of said first or second customers... ..customers may be same. In yet another implementation, none of the options may include a **notification** deadline condition.

However, in another implementation, at least one of said options may include at least one **notification** deadline condition. The **notification** deadline condition may be different for said first and second options. The company may allocate at least one product to at least one **entity** other than said company, and said **entity** delivers at least one of said first or second options on at least one of... ..company may reserve the right to limit the customer to n products on a stated **notification** date. The payment transaction may consist of one or more transactions apart from the initial... ..company. At least one of said m products may be available for use by an **entity** other than said company. Said m products may be selected in at least one transaction. The company mentioned above may include more than one **entity**. The company may select at least one of said m products for the customer. In... ..is another aspect of the invention that at least one of the company or an **entity** other than said company may deliver to the customer, at one or more times, one... ..one condition on the option has been satisfied. The option may also confer on an **entity** other than said company the right to enforce the upgrade, provided at least one condition... ..exercise its right of enforcing the payment obligation upon the customer. The customer may become **entitled** to the option to get an upgrade by making a payment, at least in part, when purchasing said product. In one of the implementations, the option may not include a **notification** deadline condition. However, in different implementations of the UPO VOF, the option may include at least one **notification** deadline condition. If the customer fails to satisfy a stated **notification** deadline condition, at least one of said m products may be defined as the Chosen... ..one subsequent interaction.

In case the company has allocated one or more products to another **entity**

apart from said company, said **entity** may sell back at least one allocated product to said company or to at least one **entity** other than the company or both. The **entity** other than said company may deliver the option on at least one of said allocated... ..the system assisted by at least one operator. The customer may also interact with another **entity** operating the system other than the company.

A UPO VOF may be implemented in any... ..the servers or the event optimizer system concurrently optimizes a value for at least two **entities**.

Another aspect of the invention consists of a computer-implemented method to provide options on... ..least pertaining to said acceptance, and in response to the occurrence of at least one **disruption** event selected from a set of at least one potential events, execute a corresponding event... ..the servers or the event optimizer system concurrently optimizes a value for at least two **entities**. It is another aspect of the invention that the company mentioned above may include more than one **entity**. The company may be a **seller** of at least said product. However, in another implementation of the invention, the company may not be a **seller** of said product. The company may operate at least one of said servers or the system. In yet another implementation, an **entity** other than company may also operate at least one of said servers or the system... ..for at least one of said company and customer involved in said transaction and another **entity**. The said interaction may include a transaction with respect to at least one product. The... ..one of the servers or the system to concurrently optimize value for at least two **entities**. It is another aspect of the invention that said search may include searching for at... ..selection of optional components and operational data of company, to optimize together values of both **entities**. In another implementation, one may only select those options that satisfy preferences expressed by the... ..is a flowchart of an algorithm to create UPO options for a given number of **entities**; Fig. 18 is a diagrammatic illustration, in a high level flowchart, of a process for... ..of Fig. 23, illustrating an algorithm to create "Upgrade List" for a given set of **entities** and a list of upgrade-enabled customers; Fig. 25 is a flowchart that expands Act... ..Fig. 31 is a flow chart illustrating an example of an algorithm of Customer **Notification** process; Fig. 32 is a flowchart illustrating an example of an algorithm to implement grouping... ..is a flowchart of an algorithm to create UPO options for a given number of **entities**; Fig. 39 is a diagrammatic illustration, in a high level flowchart, of a process for... ..Fig. 51 is a flow chart illustrating an example of an algorithm of Customer **Notification** process in an airline industry; Fig. 52 is a flowchart illustrating an example of an... ..is a flowchart of an algorithm to create UTO options for a given number of **entities**; Fig. 59 is a diagrammatic illustration, in a high level flowchart, of a process for... ..of Fig. 66, illustrating an algorithm to create "Upgrade List" for a given set of **entities** and a list of upgrade-enabled customers; Fig. 68 is a flowchart that expands Act... ..72; Fig. 73 is a flow chart illustrating an example of an algorithm of Customer **Notification** process in an airline industry; Fig. 74 is a

diagrammatic illustration of an exemplary set... ...is a flowchart of an algorithm to create URO options for a given number of **entities**; Fig. 79 is a diagrammatic illustration, in a high level flowchart, of a process for... ...of Fig. 86, illustrating an algorithm to create "Upgrade List" for a given set of **entities** and a list of upgrade-enabled customers; Fig. 88 is a flowchart that expands Act... ...algorithm; Fig. 97 is a flow chart illustrating an example of an algorithm of Customer **Notification** process in the hotel industry; Fig. 98 is a flowchart illustrating an example of an... ...will be appreciated to include sole proprietorships, partnerships, corporations, option aggregators or any other legal **entity** or combination thereof. The term "**entity**" includes the singular and plural and will include individual(s), group of individuals, company, companies, sole proprietorships, partnerships, corporations or any other legal **entity** or combination or consortium thereof.

The term "Option Aggregator" or "Option Aggregators" or "OA" may... ...not limited to, a company, a group and/or consortium of companies, more than one **entity**, any **entity** formed by company(s) (whether or not solely for this purpose), any other **entity** or any combination thereof that offers options on its own products and/or other company... ...airlines" includes, but is not limited to, an airline, an airline's business partner, an **entity** which deals with an airline or an airline's business partner, a travel agent, an Option Aggregator and any **entity** forming a part of the chain of commerce related to airline and/or travel industry... ...dormitory, inn, resorts, a group or chain of hotels, a hotel's business partner, an **entity** which deals with a hotel or a hotel's business partner, a travel agent, an Option Aggregator, any **entity** forming a part of the chain of commerce related to hotel and/or travel industry... ...any two or more of the above. A hotel may be referred to as an **entity** that provides space for hire.

The term "car rental company" or "car rental companies" includes... ...company, a group of car rental companies, a car rental company's business partner, an **entity** which deals with a car rental company or a car rental company's business partner, a travel agent, an Option Aggregator, any **entity** forming a part of the chain of commerce related to car rental industry and/or...above.

The term "travel company" or "travel companies" includes, but is not limited to, any **entity** forming a part of the chain of commerce related to the travel industry, a company, a group of companies, a travel company's business partner, an **entity** which deals with a travel company or a travel company's business partner, a travel... ...The term "Product" refers to a product or service provided by a manufacturer or an **entity**. The term "Products" or "Product" may also refer to "Product Set" or "Product Sets" or... ...and when the context requires and are used interchangeably. The term "customer" here implies an **entity** buying or entering into a contract to buy a company's product or service. The... ...The term "transaction" here implies to do, to carry or to conduct an agreement or **exchange**. The **exchange** may or may not involve a price in terms of monetary or non-monetary value... ...miscellaneous parameters. The airline related

parameters may include, but are not limited to, operating carrier **entity** (i.e., the airline that operates the flight), marketing carrier (an airline that sells the... ..rental company related parameters may include, but are not limited to, operating car rental company **entity** (i.e., the car rental company that operates the car), owner of the car, marketing... ..are related to each other. In a Value Option Framework, the successful interaction between the **participants** may happen through a number of transactions in sequence, where each of the transactions in... ..situation, a particular setting or value (termed "Default Settings" or "Default Value") for one/more **exchange** variables is/are assigned automatically. These Default Settings/Default Values remain in effect unless intervened... ..or non-monetary (soft) value. The payment can be from company and/or any other **entity** to customer or from customer to company and/or any other **entity** or both.

The term "significant period of time" here implies a time period that is... ..in the cascading route of Upgrade U calls. A ChildU element consists of the following **entities**: Collection of Initiator, Initial Accounted Set, Final Accounted Set and Cost of ChildU.

The term... ..from its Accounted Set to its Awaiting Set. A Series Element consists of the following **entities**: Collection of ChildU (COCU), Collection of End Product (COEP); and Cost of the Series Element...the following events may have terms and conditions applicable to the customer, the company, another **entity** or any combination thereof. These terms and conditions may be set, preferably, to concurrently benefit... ..may consist of a monetary value or a soft value (e.g., benefits, coupons or **exchange** of another service) or other consideration. The price may be fixed or variable, with or... ..at anytime. The price conditions may be determined by the customer, the company, a third **entity**, or any combination thereof, at one or more times.

As shown in Fig. 8, the... ..preferred, or a combination of methods may be used.

On a browser, which accesses the **seller's** (i.e., company's) web site, a series of questions are presented to the...sell back at least one allocated product to said company or to at least one **entity** other than the company or both.

An OA may formulate an agreement with one or... ..third party or may receive the option price from any of the combination of the **entities** mentioned above.

A company may allocate some inventory of one or more products to another **entity** such as an OA or Option Aggregator. The term "allocation of product inventory" "allocation of... ..implies, without limitation,



assigning one or more units of one or more products to an **entity** for any purpose or use by the **entity** either exclusively or non-exclusively. The allocation of product may be conditional. For example, one... ..one example where three different companies choose to allocate one or more products to another **entity** (i.e., OA in this example). The OA may use the allocated products to operate... ..and the OA may, without limitation, work together as partners, joint ventures, all together separate **entities**, partnerships etc., to offer and implement the value option frameworks related to the novel invention... ..implementation, type of implementation, one or more factors of choice of the company, OA, third **entity** and/or any combination thereof. In one of the ways customer may approach OA through... ..system, the servers and/or the databases may belong only to the company, OA, third **entity** and/or any combination thereof.

Information Technology System for the value option framework A client... ..more of such servers may be located at the premises of the company, OA, third **entity** and/or any combination thereof. Such premises may also be an offshore location which may... ..real time basis.

The Fig. 13C shows one of the ways by which the different **entities** involved and participating in the value option framework, interact and may participate in the value... ..including, but not limited to, the scale of the implementation, business requirements and number of **entities** involved. The **entities** may interact through a series of hardware products and services with the OA/company server... ..OA server may be the same as that of the company server. One of the **entities** shown in Fig. 13C is customer (Box 13C.1 10), who uses input device (Box... ..The entire process may run at the premises of OA, company and/or any third **entity** or any combination thereof. It may also be possible to run a part of the... ..the application may be hosted on the company's server, OA's server, any third **entity**'s server and/or any combination thereof. Such a server may be located at the premises of the company, OA, any third **entity** location and/or any combination thereof and such a location may include an offshore location... ..or the servers may be run jointly by the company, OA and/or a third **entity**. Load balancer (Box 13D.140) may be utilized to distribute load across one or more... ..framework is achieving concurrent optimization for at least two of the company, customer, OA, third **entity** or any combination thereof on occurrence of an event. Fig. 13E describes one of the... ..OA, company and event (which may be triggered by the company, OA, customer, any third **entity** or any combination thereof) takes place.

Fig. 13E presents a diagrammatic representation of a chain... ..13E.140, 13E.150 and 13E.160). One or more different databases (of OA, third **entity**, the company and/or any combination thereof) may also be updated as per the requirement... ..depending on the factors and rules determined by the company, OA and/or any third **entity** or any combination thereof, as shown in the Box 13E.220. A set of possible... ..and 13E.190 may be done. Once one or more database are updated, the Customer **Notification** Process (Box 13E.390) takes place, in which the customer is

notified, and the algorithm... ..customized as per the specific requirements of the company, value option framework, OA, any third **entity**, customers and/or any combination thereof.

Benefit of using the system and method Through this... ..and how long before utilization the product must be purchased for the customer to be **entitled** to an upgrade. In the service value segment (shown in Box 14.130) important value...value of 'm' and/or 'n' may be defined by the company, the customer, another **entity** or any combination thereof. For example, the value of n may not be defined at... ..value of 'm'.

The UPO Products may be selected by the company, the customer, another **entity** or any combination thereof. The UPO VOF may enable a company to obtain preferences for... ..product needs of other customers and/or to optimize the value for company, customers, another **entity** and/or any combination thereof. Therefore, the company would usually have the right to select ... ..the Chosen Products.

However, in different implementations of UPO VOF, the company, the customer, another **entity** or any combination thereof may select one or more of the Chosen Products related to a UPO. The UPO Products and the Chosen Products may be selected by the same **entity**, different **entities** or any combination thereof. For example, the customer may select the UPO Products and the... ..may have the right to choose between the Base-Product and Up Product and subsequently **notify** the company about the Chosen Product. A customer may or may not be under a... ..impose one or more conditions on the company. A company may be required to explicitly **notify** the customer prior to or no later than a given date and time (referred to as the **Notify Deadline**) regarding the Chosen Product. If there is no such explicit **notification** condition, the Chosen Product may be decided as per the terms and conditions of the option contract. In either case, (explicit or implicit **notification**), the date and time when the selection of the Chosen Product is notified to the customer is referred to as the Customer **Notification Time** (or CNT, in short). In the current discussion, the explicit **notification** condition is assumed unless specifically mentioned otherwise. The **Notify Deadline** may be pre-determined or may be determined later (i.e., after the Initial Transaction) by the company, the customer, any other **entity**, or any combination thereof.

A company may determine one or more **Notify Deadlines** for a product at one or more times (e.g., before, during, after the... ..or any combination of the above.

Customer factors should also be considered in determining the **Notify Deadlines**, such as the flexibility trade-in periods desired by customers, or any other factor that may affect the behavior of a customer.

The **Notify Deadline** may be pre-determined or may be determined later (i.e., after UPO grant) by the company, the customer or mutually by both. There may be one or more **Notify Deadlines**, where each **Notify Deadline** may

have a different price associated to it. There are several ways to implement this condition. One way is given, as follows.

The price associated to the first **Notify** Deadline (i.e., the earliest among the **Notify** Deadlines) may be offered if the customer is notified anytime before the first **Notify** Deadline. The price associated to the second **Notify** Deadline (i.e., the second earliest among the **Notify** Deadlines) may be offered if the customer is notified after the first **Notify** Deadline and before the second **Notify** Deadline.

The terms and conditions of the UPO VOF may not allow the company to **notify** the customer after the last **Notify** Deadline (i.e., the latest among the **Notify** Deadlines).

In another implementation of the UPO VOF, flexibility may also be provided to the customer to **notify** the company about the Chosen Product up to a stipulated **Notify** Deadline, once the company has offered the Up Product to the customer. As an operational measure, a rule may be set that if the company fails to **notify** the customer before the last **Notify** Deadline, the Base-Product becomes the Chosen Product and no upgrade is provided to the customer. Another approach may be set that if the customer fails to **notify** the company about the Chosen Product once the upgrade has been offered to him/her... ..Product as the Chosen Product and a price may or may not be charged. Any **entity** (e.g., the company or the customer) may (or may not) be allowed to change... ..not be equal to the UPO Exercise Price for the Default Product for the last **Notify** Deadline.

In the current discussion, a single **Notify** Deadline is assumed.

The customer may be required to pay one or more prices during... ..decided at anytime. The price conditions may be determined by the customer, the company, another **entity**, or any combination thereof at one or more times. One or more prices (UPO Initial... ..non-monetary value (e.g., coupons, discount vouchers, other benefits such as loyalty program benefits, **exchange** of another service) or other consideration or any combination of the above.

A price may... ..Products, specific products to be granted for UPO Products, Up Products and/or Chosen Products, **Notify** Deadline, one or more Product Prices, any other factors of company's choosing or any... ..than or equal to the value of the UPO Pass. The company and/or another **entity** may create various types of UPO Pass.

The payment transaction may include, but not limited... ..right for a company to upgrade the customer to an Up Product before a stated **Notify** Deadline. The right may include the condition that the company may **notify** the customer before, at or after the stated **Notify** Deadline or any combination thereof. To provide flexibility to the customers, the company may offer... ..the customers. Said one or more Up Products may be given by the company, another **entity** and/or by both. The Up Products given in

Level 2 or higher events may be given in **exchange** of one or more previously given Up Products or in addition to the earlier given...In this Act, a number of algorithms may be executed (e.g. availability, UPO Price, **Notify** Deadline, Upgrade List and so on) on the company's server to optimally calculate the... ..validates an OPS for a given set of conditions including, but not limited to, availability, **Notify** Deadline and UPO Price. Said algorithm has already been discussed above in a more generic... ..include, but are not limited to, date, time and location, number of Products per Set, **Notify** Deadline, UPO Price (Initial and Exercise) and so forth. A customer may be allowed to input **Notify** Deadline and/or UPO Price on the basis of which valid OPSs (that satisfy the given criteria of **Notify** Deadline and/or UPO Price) may be searched for and displayed for the customer. For... ..customer may be asked to input the product related parameters, and then a set of **Notify** Deadlines and UPO Prices may be computed for the products that match the given criteria. In another example, a customer may input both product related parameters and **Notify** Deadline and/or UPO Price as inputs and then a search may be performed for... ..may be performed using a processor that may calculate results in optimal time.

Computation of **Notify** Deadlines A company may set one or more **Notify** Deadlines of its choosing for its Products.

Once the **Notify** Deadlines have been set for each Product, the next Act is to create a framework to compute the **Notify** Deadlines, for a group of Products (such as a Set, an Order or any other... ..present an example of a framework that may be used to obtain a set of **Notify** Deadlines applicable to a group of Products. A company may use any framework and algorithm of its choosing to obtain the same.

A set of **Notify** Deadlines associated with a Product, a Set and a combination of two or more Sets... ..computed by combining the Product ND

Sets of all the Products under that Set. The **Notify** Deadlines can be computed based on various parameters and factors of the company's choosing... ..for all Sets. A Set ND Set is computed by first selecting earliest of the **Notify** Deadlines of each Product within the concerned Set, and then picking the latest of those Deadlines, and noting that as the Target Deadline. Next step is to pick all those **Notify** Deadlines that fall after the Target Deadline. **Notify** Deadlines thus obtained may be validated using various validation rules based on company factors such... ..for an OPS may depend on one or more factors including, but not limited to, **Notify** Deadline, UPO Prices, expected Product value and so forth. A company may use any method... ..compute UPO capacity is discussed below. Consider the case, when UPO Capacity is dependent on **Notify** Deadline. In such situation, the objective is to determine those Comb

NDs within the Comb... ..a given Comb ND for the given OPS. The process may be repeated for all **Notify** Deadlines within Comb ND

Sets. UPO may be made available on a given OPS for... ..Product OP refer

to UPO Price (and may or may not be corresponding to a **Notify** Deadline) associated with a Product. Similarly, Set OP and Comb OP refer to UPO Price (may or may not be corresponding to a **Notify** Deadline) associated with a Set and a combination of two or more Sets, respectively. A...  
 ...for the customer along with the associated terms and conditions including, but not limited to, **Notify** Deadlines, Initial UPO Price, UPO Exercise Price and Product Price for each such combination. The...  
 ...combination of two Sets and the associated conditions such as UPO Exercise V&#942;ce/**Notify** Deadline. Next, in Act 22.130, a payment transaction is executed, if needed. For example... ..make an option to become exercisable. In this stage, the UPO Exercise Process (and customer **notification** (or CN, in short) process) as shown in Act 18.200 is executed. In this...the customer for the upgrade amount if the customer is upgraded. The company may inform/ **notify** the customer and/or take approval from customer to charge the customer's account before...COCU of S1 and S2) and CSE (addition of CSE of S1 and S2).

Customer **Notification** Process In the Customer **Notification** (CN) process, a decision for the Chosen Product is notified to the customer. As mentioned earlier, the Chosen Product may be defined by the company, the customer, another **entity** or any combination thereof. However, the company may want to keep the right to select... ..I displays an example of an algorithm that may be used to execute the Customer **Notification** process. In Act 31.100, a group of (one or more) customers is taken as input. Next, in Act 31.1 10, a set of one or more Customer **Notify** Rules may be used to define the Chosen Product. A company may choose any Customer **Notify** Rule of its choosing. The Customer **Notify** Rules may depend upon expected value of the Product, expected sales volume and so forth. For example, a company may choose a Customer **Notify** Rule which selects the Product with the higher value as the Chosen Product. Alternatively, a ...  
 ...Ua may be upgraded in the process of selecting the optimal Chosen Product. A Customer **Notify** Rule may also select the Product with the higher sales volume as the Chosen Product. A Customer **Notify** Rule may specify that if UPO VOF is used in conjunction with any other VOF...  
 ...may govern the selection of the Chosen Product.

Next, in Act 31.120, the Customer **Notify** Rules, thus obtained from the company's database, are used to define Chosen Products). Next...  
 ...option contracts of one or more UPO and/or APO customers (for e.g., price, **notify** deadline and so on) to solicit customer participation in UPO/APO to create more AU... ..more partners and/or other companies.

As mentioned in the above sections, for example, an **entity** may use the allocated products to offer UPO to customers and/or to sell the...  
 ...customer may select or purchase one or more products from the company and/or said **entity** and then interact with said **entity** to receive one or more UPO Products in relation to said (already purchased) products. Said **entity** may also receive product allocation from more than one company, and thus, offer UPOs on... ..more of those selected products from the OA. Even if the OA may not be **entitled** to or does not receive product allocation from a company, it may still be able...contract and the OA

and/or any one or all of the companies will then **notify** the customer about the Chosen Product within the terms and conditions of the option contract ... ..from the OA or the company for the products related to the UPO grant. Any **entity** (e.g., the OA and the company) may process products offered only by that **entity** or by either of the two **entities**.

The OA and the company may engage in a business agreement to implement a UPO... ..sell back at least one allocated product to said company or to at least one **entity** other than the company or both. An OA may offer a company flexible customer inventory... ..third party or may be required to pay to any of the combination of the **entities** mentioned above.

Information Technology System for UPO A client-server architecture may be used to... ..explained in Fig. 13D above and UPO Exercise processes (including, but not limited to, Customer **Notification** processes) in the stage two of the UPO VOF. The application server communicates with a... ..including, but not limited to, the scale of the implementation, business requirements and number of **entities** involved. The **entities** may interact through a series of hardware products and services with the OA/company server... ..The entire system may run at the premises of OA, company and/or any third **entity** or any combination thereof. It may also be possible to run a part of the... ..and how long before departure the ticket must be purchased for the customer to be **entitled** to an upgrade. In the service value segment (shown in Box 34.130) important value... ..value of 'm' and/or 'n' may be defined by the airline, the customer, another **entity** or any combination thereof. For example, the value of n may not be defined at... ..value of 'm' The UFO Flights may be selected by the airline, the customer, another **entity** or any combination thereof. The UFO VOF may enable an airline to obtain preferences for... ..travel needs of other customers and/or to optimize the value for airline, customers, another **entity** and/or any combination thereof. Therefore, the airline would usually have the right to select ... ..the Chosen Flights. However, in different implementations of UFO VOF, the airline, the customer, another **entity** or any combination thereof may select one or more of the Chosen Flights related to a UFO.

The UFO Flights and the Chosen Flights may be selected by the same **entity**, different **entities** or any combination thereof. For example, the customer may select the UFO Flights and the... ..may have the right to choose between the Base-Flight and Up Flight and subsequently **notify** the airline about the Chosen Flight. A customer may or may not be under a... ..Initial Transaction may have terms and conditions applicable to the customer, the airline, any other **entity** or any combination thereof. These terms and conditions may be set, preferably, to concurrently benefit... ..impose one or more conditions on the airline. An airline may be required to explicitly **notify** the customer prior to or no later than a given date and time (referred to as the **Notify Deadline**) regarding the Chosen Flight. If there is no such explicit **notification** condition, the Chosen Flight may be decided as per the terms and conditions of the option contract. In either case, (explicit or implicit **notification**), the

date and time when the selection of the Chosen Flight is notified to the customer is referred to as the Customer **Notification** Time (or CNT, in short). In the current discussion, the explicit **notification** condition is assumed unless specifically mentioned otherwise. The **Notify** Deadline may be pre-determined or may be determined later (i.e., after the Initial Transaction) by the airline, the customer, any other **entity**, or any combination thereof.

An airline may determine one or more **Notify** Deadlines for a flight at one or more times (e.g., before, during, after the... ..or any combination of the above. Customer factors should also be considered in determining the **Notify** Deadlines, such as the upgrade periods desired by customers, or any other factor that may affect the behavior of a customer.

The **Notify** Deadline may be pre-determined or may be determined later (i.e., after UFO grant) by the airline, the customer or mutually by both. There may be one or more **Notify** Deadlines, where each **Notify** Deadline may have a different price associated to it.

There are several ways to implement this condition. One way is given, as follows. The price associated to the first **Notify** Deadline (i.e., the earliest among the **Notify** Deadlines) may be offered if the customer is notified anytime before the first **Notify** Deadline. The price associated to the second **Notify** Deadline (i.e., the second earliest among the **Notify** Deadlines) may be offered if the customer is notified after the first **Notify** Deadline and before the second **Notify** Deadline.

The terms and conditions of the UFO VOF may not allow the airline to **notify** the customer after the last **Notify** Deadline (i.e., the latest among the **Notify** Deadlines). In another implementation of the UFO VOF, flexibility may also be provided to the customer to **notify** the airline about the Chosen Flight up to a stipulated **Notify** Deadline, once the airline has offered the Up Flight to the customer. As an operational measure, a rule may be set that if the airline fails to **notify** the customer before the last **Notify** Deadline, the Base-Flight becomes the Chosen Flight and no upgrade is provided to the customer. Another approach may be set that if the customer fails to **notify** the airline about the Chosen Flight once the upgrade has been offered to him/her... ..Flight as the Chosen Flight and a price may or may not be charged. Any **entity** (e.g., the airline or the customer) may (or may not) be allowed to change... ..not be equal to the UFO Exercise Price for the Default Flight for the last **Notify** Deadline. In the current discussion, a single **Notify** Deadline is assumed.

The customer may be required to pay one or more prices during... ..decided at anytime. The price conditions may be determined by the customer, the airline, another **entity**, or any combination thereof at one or more times. One or more prices (UFO Initial... ..e.g., coupons, discount vouchers, other benefits such as loyalty program benefits, frequent flyer miles, **exchange** of another service) or other consideration or any combination of the above.

A price may... ..Flights, specific flights to be granted for UFO Flights, Up Flights and/or Chosen Flights, **Notify** Deadline, one or more Ticket Prices, any other factors of airline's choosing or any... ..than or equal to the value of the UFO Pass. The airline and/or another **entity** may create various types of UFO Pass.

The payment transaction may include, but not limited... ..right for an airline to upgrade the customer to an Up Flight before a stated **Notify** Deadline. The right may include the condition that the airline may **notify** the customer before, at or after the stated **Notify** Deadline or any combination thereof. To provide flexibility to the customers, the airline may offer... ..the customers. Said one or more Up Flights may be given by the airline, another **entity** and/or by both. The Up Flights given in Level 2 or higher events may be given in **exchange** of one or more previously given Up Flights or in addition to the earlier given... ..of algorithms may be executed on the airline's server (e.g. availability, UFO Price, **Notify** Deadline, Upgrade List and so on) to optimally calculate the terms and conditions of the... ..and other conditions) to concurrently benefit at least two of the airline, its customers, another **entity** or any combination thereof. In Act 39.200, an event optimizer process called the UFO...42. For each of the OFSs, Initial UFO Price, a set of one or more **Notify** Deadlines and the corresponding UFO Exercise Prices are shown in the form of "Select" buttons (shown in the "UFO **Notify** Deadline/UFO Exercise Price" section in Fig. 42). The customer may select any desired OFS (along with the **Notify** Deadline and UFO Exercise Price) by clicking on a "Select" button associated with any of the **Notify** Deadlines displayed in the corresponding row.

Once the customer clicks the "Select" button, he/she... ..validates an OFS for a given set of conditions including, but not limited to, availability, **Notify** Deadline and UFO Price. Said algorithm has already been discussed above in a more generic... ..are not limited to, departure date and time, origin, destination, number of Legs per Segment, **Notify** Deadline, UFO Price (Initial and Exercise) and so forth. A customer may be allowed to input **Notify** Deadline and/or UFO Price on the basis of which valid OFSs (that satisfy the given criteria of **Notify** Deadline and/or UFO Price) may be searched for and displayed for the customer. For... ..be asked to input the origin and destination related parameters, and then a set of **Notify** Deadlines and UFO Prices may be computed for the flights that match the given criteria. In another example, a customer may input both the origin and destination and **Notify** Deadline and/or UFO Price as inputs and then a search may be performed for... ..be used while implementing the search process at Leg and/or Itinerary level.

**Computation of Notify Deadlines** An airline may set one or more **Notify** Deadlines of its choosing for its Flights.

Once the **Notify** Deadlines have been set for each Flight, the next Act is to create a framework to compute the **Notify** Deadlines for a group of



Flights (such as a Segment, an Itinerary or any other... ..present an example of a framework that may be used to obtain a set of **Notify Deadlines** applicable to a group of Flights. An airline may use any framework and algorithm of its choosing to obtain the same.

A set of **Notify Deadlines** associated with a Leg, a Segment and a combination of two or more Segments... ..computed by combining the Leg ND  
ND  
Sets of all the Legs under that Segment.

The **Notify Deadlines** may be computed based on various parameters and factors of the airline's choosing... ..for all Segments. A Seg ND  
Set is computed by first selecting earliest of the **Notify Deadlines** of each Leg within the concerned Segment, and then picking the latest of those Deadlines, and noting that as the Target Deadline. Next step is to pick all those **Notify Deadlines** that fall after the Target Deadline. **Notify Deadlines** thus obtained may be validated using various validation rules based on airline factors such... ..for an OFS may depend on one or more factors including, but not limited to, **Notify Deadline**, UFO Prices, expected Seat value in a flight and so forth.

An airline may... ..compute UFO capacity is discussed below. Consider the case, when UFO Capacity is dependent on **Notify Deadline**. In such situation, the objective is to determine those Comb NDs within the Comb... ..a given Comb ND for the given OFS. The process may be repeated for all **Notify Deadlines** within Comb ND Sets. UFO may be made available on a given OFS for... ..Leg  
OP refer to UFO Price (and may or may not be corresponding to a **Notify Deadline**) associated with a Flight Leg. Similarly, Seg  
OP and Comb  
OP refer to UFO Price (may or may not be corresponding to a **Notify Deadline**) associated with a Segment and a combination of two or more Segments, respectively. A... ..for the customer along with the associated terms and conditions including, but not limited to, **Notify Deadlines**, Initial UFO Price, UFO Exercise Price and Ticket Price for each such combination. The... ..make an option to become exercisable. In this stage, the UFO Exercise Process (and Customer **Notification** (or CN, in short) process) as shown in Act 39.200 is executed. In this...

#### Claims:

...data store.

3. The method of claim 2 wherein said company includes more than one **entity**.
4. The method of claim 2 wherein said company is not the **seller** of said product.

5. The method of claim 2 wherein said company is not the **seller** of said option.
6. The method of claim 2 wherein said company offers at least... ..least one of said systems.
8. The method of claim 2 wherein at least one **entity** other than said company operates at least one of said systems.
9. The method of... ..has been satisfied.
20. The method of claim 2 wherein said option confers on an **entity** other than said company the right to enforce the upgrade provided, at least one condition... ..for the upgrade if offered.
25. The method of claim 2 wherein the customer becomes **entitled** to the option to get an upgrade by making said payment, at least in part... ..of claim 2 wherein said company allocates at least one product to at least one **entity** other than said company, and said **entity** delivers said option on at least one of said allocated products.
39. The method of claim 38 wherein said **entity** sells back at least one allocated product to said company or to at least one **entity** other than the company or both.
40. The method of claim 38 wherein said allocation... ..least one operator.
43. The method of claim 2 wherein the customer interacts with another **entity** operating the system other than the company.
44. A computer-implemented system to sell products... ..least one customer and optimize value for at least one of customers, company and an **entity** other than said company; and e. a data processor being adapted to record the information... ..one customer and to optimize value for at least one of customers, company and an **entity** other than said company; and e. recording the information pertaining to said upgrade in a... ..the servers or the event optimizer system concurrently optimizes a value for at least two **entities**.
86. A computer-implemented method to provide options on products, comprising: a. providing a data... ..the servers or the event optimizer system concurrently optimizes a value for at least two **entities**.
87. The method of claim 86 wherein company includes more than one **entity**.
88. The method of claim 86 wherein said company is a **seller** of at least said product.
89. The method of claim 86 wherein said company is not a **seller** of said

product.

90. The method of claim 86 wherein said company operates at least...  
...for at least one of said company and customer involved in said transaction and another **entity**.

93. The method of claim 86 wherein said interaction includes a transaction with respect to... ..one of the servers or the system to concurrently optimize value for at least two **entities**.

96. The method of claim 86 wherein said search includes searching for at least one... ..selection of optional components and operational data of company, to optimize together values of both **entities**.

111. The system of claim 110 wherein selecting only those options that satisfy preferences expressed...

**Dialog eLink:** Order File History

6/3K/5 (Item 2 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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01537571

## **GENIUS ADAPTIVE DESIGN**

MODELE D'ADAPTATION AU GENIE

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 KZ; LA; LC; LK; LR; LS; LT; LU; LV; LY;  
 MA; MD; MG; MK; MN; MW; MX; MY; MZ; NA;  
 NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO;  
 RS; RU; SC; SD; SE; SG; SK; SL; SM; SV;  
 SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US;  
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 LV; MC; NL; PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
 ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
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### Detailed Description:

...and/or physical space rentals that were 'adapted by 'W5. BA = Landlord behavior: how they **exchange** 'access for 'billing income, balanced with risk 'analysis [based on security (background search, 'ba), 'predicted...8212;>comm . computerized) &#8212; c . coordinate coord . invention or product &#8212; N or KN . notifier / **notify** notif&#970;c(s/d) &#8212;> nr . OTD &#8212;\*For Techies (either label reduces confusing...usage or user profile . Alternatives & Keywords for ALERTER feature: observant, on guard (slang), security, warn, **notify**, watch, help protect. . US Patent Classification for ALERTER: 340.825 Communications; Electrical, subclasses 825 through... ..us &#961;c706/sched706.htm-C706S01 1000having particular user interface Alternatives & Keywords for FINTERACT feature: **collaborate**, combine, connect, contact, cooperate, interface, interplay, interreact, join, merge, mesh, network, reach out, relate, touch...USER (for caller/ receiver, eg: key in code for type person wanted ("voice mail"))); NOTIFIER (); **NOTIFYING** CALL (); PORTABLE O; PRINTER ; PS; R(); S (); SCORE (); SOUND ANALYZER (); STEREO \* (); SYNTH (); TDS \*o...O; GAMEO; K O; MFH O; MIC O; MOUSE (); MP O; MULTIMEDIA (); MULTI-USER (); NOTIFIER (); **NOTIFYING** CALL (); PORTABLE O; PR (mm show could be created using 'author software'(from M/other... ..O; EXERCISEO; FS O; GAMEO; K (); MFH (); MIC O; MOUSEO; MP(); MULTIMEDIA (); MULTI-USER O; NOTIFIER O; **NOTIFYING** CALL (); PORTABLE O; PR(); PRINTER (); PS; R(); S (); SCORE (); SOUND ANALYZER (); STEREO \* (); SYNTH (); TDS \*(); TRANSFERRING...

...other party (as provided via UIP); ENTERTAIN; FS \*\*: attached to tel in diagram; GAME \*\*: (each **participant**'s caller id acts as one of their possible "access" codes); MFH: (UIP: develops analysis... ..to buy; past, current and future trends.-in this manner, marketers can pin point potential **buyers** without inundating them with material they're not likely to buy resulting in excessive advertisement exposure of their brand names and wasted costs; and **buyers** begin to see such brand names in a more appealing light (that brand fits their... select from menu which of these they want tr to other "tel").-C2 Electronic Blackboard; **Participants** share documents, images and presentations. Shared via "tel" lines for simultaneous viewing and editing by... ..834-9453, or 800 WILDFIRE. See article in SF Chronicle, p. D1, June 16, 1996. **NOTIFYING CALL** = D: Incoming call (CID) = C~T~"Notif&#970;er (Display/OSC)" o 5G Automatic... ..other smaller portable device might alert them via sound, light or quiet vibration.-device might **notify** them if there are any messages on answering machine or voice mail, and or number... ..Alerter: Wherever you are in your dwelling, the telephone ringing will activate your jewelry/apparatus **notifying** you of ringing.-great if you have friends calling you late at night and you... ..a fax has arrived (or any other telecommunications data on home/separate line (system will "**notify**" the type of tr received)); when someone is walking or driving up the driveway/walkway... ..other smaller portable device might alert them via sound, light or quiet vibration.-device might **notify** them if there are any messages on answering machine or voice mail, and or number...uip MIC&#923;; Connectable to vocoder MOUSE&#923;; MPA: MULTIMEDIA\*; MULTI-USER&#923;; NOTIFIER&#923;; **NOTIFYING CALL**&#923;; PD&#923;; PORTABLE&#923;; PR&#923;; PRINTER\*: PSA: R&#923;; ROUTER&#923;; SA... ..facial expressions, facial/body movement. See: + "Edits" "Images"; See "S" for other details. A 'game '**entity** [normally not a live person themselves in flesh]. CHARACTERISTIC = Facets that differentiate something. How do... ..use the word "characteristic"? Read Later: The distinguishing traits or marks [from other 'inventions, 'game **entity** traits], idiosyncratic traits are more distinguishable, what comprises the '**entity**'s or 'invention's character, feature, disposition, unique ['mood, 'editing, form of 'education or 'guidance...to the overall design) can be considered a user as well. Usually it is the **entity** licensed to use the inventions and their features. VA / VISUAL ANALYZER / VISUAL RECOGNIZER . The camera... ..correct user. Eg: A French accessor's password states their language of preference; and a '**notification** will be made should a 'Spanish or 'Russian interface ever be made [and then actually... ..the set permissible parameter, a warning sound and or "S" or light goes on to **notify** them of a needed change. \*changes can also be made via keying in special difficult... ..a secretary's password accessing PhD level material is cause for suspect.-"Morning alarm's "**Notification**" system: its level of pertinence to user's needs. Eg: how effective is it in...alarm": user's wakefulness before\* and after the alarm; their behavior= as matched against the **notification** mode. Subject group "designation": Media is scored also by its type of subject category. Also... ..accessor: Confidentially anyone can "tag" potential hackers= resulting in: their lower "score" / system "tracking" such **entity** more cautiously / access controller confronting

accessor directly / cutting off access (if access has other reasons...  
 ...s database guides system's functions (determines the type, manner, timing, whether or not to **notify**, mq, osc, synth; pp; uip database influences printer's print out parameters, score, speech, vc ...  
 ...environments are keyed into computer-> c (computer) "analyzes" for type indicators that may &#960;r ("notify) more than one of these (unrelated) 5 chemicals / environments [sw tries to find indicators that...or B\* dir KN (invention) where games are sold via vending machines and tailored to **buyers**. . "Synthesized" music / sounds altered. End of ACCESS-BA = UIP File: Access  
 Ac-BAIMI COMMON FEATURES... ...to advertisements: . How functions described in abstract of patent are replaced with KN (invention)  
 Features:-**buyer** behavior can be replaced with: how accessor functions in other manners described-advertisements and promotions...accessor as exhibiting (in response to any stimuli= created by sys). The person or other **entity** mentioned is the "accessor". The desired functions of accessor are what is controlled by access... ...notified about the good or unusual status of any accessor's functions. The form of **notification** is via "notifier", eg: an alert signal. Any one of multiple people or systems can... ...physical entrance way to building or system); police; government intelligence system or employee; anti-hacker **entity**; one who controls "tracking" system (against hackers).-Automatic mode drawing (diagram): locks all / part of...in artistic / creative manner: "compose" sounds / lights / other Frequency-%(sys's (behavioral) "analyzer"(helps) determine **entity** (trying to gain access), according to type creative work, eg: similar to determining real composers...on hacker) to punish them: identify hacker (who or where they are / WS they access) ;"**notify**" security; ba on hacker to better catch them upon any subsequent attempts they may commit... ...this material is moved ("routed") around (their / main system / WWW)="track" follows it= to: others **collaborating** w/ hacker / hacker's whereabouts / better understand hacker's behavior. "Guides"= "hackers"= into their "designated... ...level of security clearance for designated type access/task); UIP; VISUAL ANALYZER.-Perhaps only the **entity** seeking "access" knows what to write (clues/prompts may help a computer hacker).-very similar ...

### Claims:

...O 10 are: to make inventions, come up with creative ideas, make money for the **seller** of ID-010 and its users, entertainment, education.-"Imi" parts are interconnect able. E.g.... ...Kays' materials on how to increase creativity (confidentially filed in copyright office, etc.) . 1357 re-seller/seller/ "MFH" 6 synthesizer. ...sound network/manufacture . generator. . (4 "printer" )/"tel"/ "mo" /"fa" 2 software amplifier... ...3 seconds for 30 seconds; this slight disorientation in listener can unlock their creativity); different **buyers**/users/etc can each be heard on an one of more than four speakers.

8...OK.--'tracking might imply/state that 'access isn't working when:

'access permits entry to **entity**, but the 'tracked behavior of that **entity** does not match expected behavior for that user &#8212; such as a bank teller seeking... ..because user/system/ 'score for other function doesn't give a high 'score of needed '**notification**, eg: user inputted the '**notification** was a false alarm // OSC' [got bad 'score] // PS-ZONE ['predicted behavior/function in a... ..system; text info = connected to audio signal can be broadcast / sent to 'screens; lights flash ['**notifying** target user to: read their email / 'screen. Communicated via sending out smells. PD (Positioning Device...pet's (changing) distance from: access point; owner's location in/out [home], [hence required '**notification**/access permission may differ].-Cleaning Elements: doormats and other bristly or combing related devices. The... ..weather (rainy).-Dirt level.-Also: 'visual analyzer, smell 'analyzer: they 'seek & 'react to [dirt on **entity** (feet/tires)] [BTRD / INSECT] EXCREMENT CATCHER: Bird Gate: Teaches birds to poop before they fly... ..can't come back inside during designated times.] // NR [when pet/human is in/outside **notifying** the pet/user] // PR [] // PS-Zone [existing invention Steve Kays conceived before another manufactured it ... ..additional cleaning needed]. Can attach on other [previously patented] cleaning/ 'access restriction device(s). OTHER **ENTITIES** SEEKING 'ACCESS: . Clean Mobile Devices [vehicles]: [Tires / body] are/must be cleaned before 'access. Reduces... ..mat while waiting to gain entrance through our electronic pet door. Claim is for any **entity** seeking 'access, whereby a pause requiring multiple non-identical steps are needed prior to granting... ..system(s). . 'Access: omitting criteria that effects one's 'access 'score. 'Order & Tracking of 'tagged **entities** behavior [ba] can [alter] 'access [let in person/animal/mobile device]. FORCED WAITING FOR 'ACCESS... ..the pet door.-(Impatient) Pet Behavior Used To Get Animals To Clean Their Own Paws-**Entities** are encouraged to conduct designated, activity to achieve the desired purpose (of the owner). Pets...

**Dialog eLink: Order File History**

6/3K/6 (Item 3 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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00933152

## EXTENDED WEB ENABLED MULTI-FEATURED BUSINESS TO BUSINESS COMPUTER SYSTEM FOR RENTAL VEHICLE SERVICES

SYSTEME INFORMATIQUE ETENDU ENTRE ENTREPRISES, A FONCTIONS MULTIPLES, FONCTIONNANT SUR LE WEB, POUR DES SERVICES DE LOCATION DE VEHICULES

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### Detailed Description:

...Fields

ange Log

1 33N112) 1050vi)

PGM Enforce rules of PGM InquireAlprista PGM Retrieve

Data **Exchange** for Crass - Reference Machine Emulation

Outbound Transaction (AM1010VI) Attributes 1A 1 36 1 2i

(AM0047... ..Messaging -----

(AMPSSR)

1 1 5 10(1t2)

PGM Update

Electronic Messag

auth. confirmation I rental **notification** 10 (ECMSGVI)

shutdown confirmation

2

Corfipbuiat Navigation Diagram

1 1 f2@"\$ AXK

deferral deferred

notice...currently notifies the ARMS On-Call staff in order that @y may

manually intervene to **notify** any ARMS-connected VAN to attempt to restart critical communication process job.

;)cess

@archical numeric...centralized ARMS application host computer system running their scheduled operational time currently causes the **notification** of the ET d ARMS primary and backup On-Call staff pagers. This is done...  
...scheduled daily use because a specified ARMS EEDI iding Partner Company's application changes to **exchange** with ARMS has not yet been amended.

;)cess

Branchical numeric ID: 1 111 8

led...for Log of Connection ,ords which are eligible for incoming translation.

- IF translation error encountered, **Notify** ETD and ARMS on-call iff and end job.

- ELSE, Call the ARMS EDI Receive...832 Pricing Catalogue - map for ARMS Trading Partner Insurance  
Company which we are using to **exchange** branch rate and availability ...be ated to a distributed rental application system host platform.

- IF processing an Opening Rental **Notification** (,RN,) functional group pe, IF the existing customer number on the transaction set internal header... ..IF processing a Rental End (,RN') transaction set AND this is the first  
osing rental **notification** (AMAUTD's Rental End Date = 0) AND IF the associated  
Confidential Page 30 of 246... ..Control Sequence ID Number, vendor nsaction ID and the Execution Code of 'RI (for Rental **Notification**).

- IF processing a Payment Advice ('PM') transaction set, then execute the  
IS Generate **Transaction** Credits (AM1080VJ) program passing the Transmission Control [uence ID Number., Group Control Sequence ID Number...the error is not from a program executing on e "DEV" (development) machine, then to **notify** the ARMS on-Call and Backup persons a sending a pager message and sending an...not exist is this file, the ARMS )gram Exception Handler (AMPSSR) program is executed to **notify** the ARMS On-Call Lff Of the program-to-program referential discrepancy and the erroneous... ..AM0097VI)  
ment: @Definition: This program is-the ARMS called Internal Error Handler :)gram.

@Purpose: To **notify** the ARMS Application Development Department On-Call rsonnel of a transaction error condition that requires... ..not exist is this file, the ARMS Program Exception Handler APSSR) program is executed to **notify** the ARMS On-Call staff of the program-to-program referential discrepancy and the erroneous...AM0097VI ogram.

Confidential Page 45 of 246 8/11/00

ARMS Process Report

@Purpose: To **notify** the ARMS Application Development Department  
'ntn@-call@

7sonnel of a transaction error condition... ..error reason code( 3s not  
exist is the AMERRTBL file, AMPSSR program is executed to **notify** the ARMS  
-Call staff of the program-to-program referential discrepancy and the  
erroneous :-or... numeric ID: 1 1 3.22

ded name: AM0047V1

me: PGM Enforce rules of Data **Exchange** for outbound Transaction  
(AM0047V1)

Confidential Page 51 of 246 8/11/00

.....

M-@

243

ARMS... ..To generically enforce the rules specified by the ARMS Rental  
management Trading Partners for data **exchange** on transaction data sets  
sent to djesters from Enterprise Rent-A-Car or Claims Connection...or an  
add, change, or transfer that contain a SURD01 record format; an opening  
ental **Notification** (RN) group type; or, an Request for Authorization (RA)  
Change

Confidential Page 54 of 246...ARMS application :entralized host computer  
system platform whenever it processes the first closing RN' Rental  
**Notification** transaction data set for a non-zero Bill-To Percent  
Luthorized rental whose profile indicates...the closest United States  
rental branch to a ecified telephone number's area code and **exchange**  
using the Horizontal and Vertic@ re Coordinates locator database.

@Operational Method.

At the start, file VERHOR gives the vertical and horizontal coordinates  
a specified area code and **exchange** number.

These coordinates are given in "unitsu. There is 316 units per mile.

This program... ..by calculating 4 new coordinates.

2 Horizontal and 2 Vertical.

The specified area code and **exchange** generates coordinates X2 and Y2 fro  
e VERHOR--file.

To "draw" the 30 mile box... ..Locator System (RANGE) data area.

The number of miles from the originally specified area code/**exchange** to  
oh rental office is arrived at by calculating the square root of the  
combined... ..horizontal coordinate of the rental office  
DVWIRE = the vertical coordinate of the original Area Code/**Exchange**  
DHWIRE = the horizontal coordinate of the original Area Code/**Exchange**

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ARMS Process Report

When a location is... ..Input 3 character AREA CODE (comprised of non

Lding zero integers only)

input 3 character **EXCHANGE** (comprised of non

Lding zero integers only)

Input 1 character COMMISSION CODE

Output 10 character... programs.

AT-002 - Draw box around a centerpoint.

AT-001 - Calculate Distance between points.

Will **notify** the application department when problem occurs  
executing programs.

Wiles: (CRUD)

OFFDRGRPPF (-R--) Office Directories Group Master...deferral notice data

queue entry is sent to the primary input data ue (DQAM61V1) to **notify**

that program that a deferred transaction exists (both data ue entries sent

with key = IDISL...deferral notice data queue entry is sent to the

primary input ' data ,ue (DQAM61V1) to **notify** that program that a

deferred transaction exists (both data ,ue entries sent with key =

IDISL...

**Dialog eLink: Order File History**

6/3K/7 (Item 4 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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00806384

## **NETWORK AND LIFE CYCLE ASSET MANAGEMENT IN AN E-COMMERCE ENVIRONMENT AND METHOD THEREOF**

GESTION D'ACTIFS DURANT LE CYCLE DE VIE ET EN RESEAU DANS UN  
ENVIRONNEMENT DE COMMERCE ELECTRONIQUE ET PROCEDE ASSOCIE

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[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;  
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
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### Detailed Description:

...As these features have become widely available in local telecommunications equipment, such as private branch **exchange** (PBX) telephone switches, central offices, key and hybrid telephone systems (small telecommunications switches), call accounting...network access to several of customers in order to share specifications, distribute engineering designs, and **collaborate** on works in progress;

Figure 116 depicts another exemplary Security Architecture in the scenario of...that is a model of some aspects of reality, whether that reality is a physical **entity**, a process, a system, or a composition of matter. Since the object can represent anything... framework of class libraries. This framework is more complex and consists of significant collections of **collaborating** classes that capture both the small scale patterns and major mechanisms that implement the common...are utilized to manage installations in operation 708.

In an embodiment of the present invention, **collaboration** between the matched service provider Z5 and the manufacturer may also be managed. In such an embodiment, the management of **collaboration** may include facilitating the transmitting of information between the matched service provider and the manufacturer utilizing the network. In an aspect of this embodiment, a **collaborative** planning tool may be provided for managing

the **collaboration** between the matched service provider and the manufacturer.

In another embodiment of the present invention...supply and demand for the manufacturer offerings.

Zo In an embodiment of the present invention, **collaborative** forecasting may also be facilitated between service providers and manufacturers utilizing the network. In another embodiment of the present invention, **collaborative** network roll-out and planning utilizing the network may be facilitated between service providers and manufacturers. As an option, a roll-out planning tool may be provided for facilitating **collaborative** network roll-out and planning between the service Z5 providers and the manufacturers utilizing the... ..and the service providers utilizing the network.

In even another embodiment of the present invention, **collaborative** capacity planning may also be facilitated between service providers and manufacturers utilizing the network. In one aspect of this embodiment, a production planning tool may be provided for facilitating the **collaborative** capacity planning. In yet a further embodiment of the present invention, reverse inventory management may...each other; they share data by using the server. Vv'hile this type of data **exchange** will continue, much more of the information flow in tomorrow's networks will be peer...of packets received out of order, is generally handled in an organized manner using layered **communication** architectures. Such architectures address the two portions of the communications problem, one being that the...a suite of best of breed third party software products that

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automate problem diagnosis, **notification**, custom-developed reporting, and IP services monitoring. This solution template is a great first step... intelligence in order to address communication over mixed media types, control of multiple session characteristics, **collaborative** communications needs, ubiquitous network access, "any to any" communications, and multimedia delivered information

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services...this process responds to performance inquiries from the customer. For SLA violations, the process supports **notifying Problem** Handling and for QoS violationsg **notifying** Service Quality Management 1304.

The aim is to provide effective monitoring. Monitoring and reporting must... ..1800, a hybrid network event is received which may include customer inquiries, required reports, completion **notification**, quality of Z5 service terms, service level agreement terms, service problem data, quality data, network... ..repair or restoration activity. This process is also responsible for any service-affecting problems, including.

**notifying** the customer in the event of a disruption (whether reported by the customer or not... ..Problem Handling Management Process in

accordance with a preferred embodiment. First, in step 2200, a **notification** of a 15' problem within a hybrid network is received by the system. Next, in... ..problem within the hybrid network is determined. The resolution may include a status report, resolution **notification**, problem reports, service reconfiguration, trouble **notification**, service level agreement violations, and/or outage **notification**. Finally, in step 2204, the progress of the implementation of the resolution is tracked.

The...system for the tailored capabilities of each customer, the event driver, collector and manager analyze **notification** events generated by the system. When a **notification** event is received the system analyzes the event and uses it to identify the customer. The **notification** event is also used to credit the customer if they experience a non-impacting event that breaches the customer's contract. In addition to the system itself generating the

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**notification** event, the customer is also able to **notify** the provider directly should such an event occur.

Figure 27 is a flowchart illustrating media... ..switch transmits the call to a destination location, which may be another switch, a local **exchange** carrier, or a private branch **exchange**. The call is transmitted over a transmission line referred to as the terminating port, or...customer, but can also be shared by multiple network customers. A network customer is an **entity** that leases network resources. In

90

step 4104, if the current switch determines that the...existing profile information. The custom profile allows a user to store frequent conference call **participants** information. The profile contains **participant's** telephone numbers (which could be DDD, IDDD, IP Address or Cellular phone number). E...in place, the microphone captures analog signals, and the signals are transmitted to the Local **Exchange** Carrier (LEQ Central Office (CO) in analog form over an analog loop. The analog signal...1 5

Internet Service Potential

Real-time view of the status of each conference call **participant**, ANI and an alphanumeric representation to identify each **participant** entered by the initiator when a call is "reserved" can be displayed on screen as **participants** connect to conference. This information is captured as part of the call record set forth...number of event lists and views, all of which are highly customizable by each operator.

**Notification** Spooler 4622 - A custom provided sub-component which spools job-files that specify which events... ..by the

i

Netcool Object Server and may need to result in one or more **notification** actions. Each job is stored as a file in a special **notification** spool directory.

ill

**Notification** Actor 4626 - A custom provided sub-component which determines the alert time, source node, and alert type from the loaded spooled job and initiates **notification** actions based as specified in the configuration file.

**Notification** actions include alphanumeric pages, trouble tickets, email, and resolution scripts. Multiple **notification** actions can be specified in the configuration files such that different actions are taken for...  
...Telamon TelAlert via modem dialing the relevant paging provider. The alphanumeric page message provides contextual **notification** of actions to be performed. Context can include any information but frequently contains information such... ..using the UNIX mail utility.

The mail message is frequently used to provide non-urgent **notification** of situations or actions automatically performed by the NMSIS architecture along with detailed context...in place, the microphone captures analog signals, and the signals are transmitted to the Local **Exchange** Carrier (LEC) Central Office (CO) in analog form over an analog loop. The analog signal...applications (application models) that have more or less configurability which can be shaped by WAF **participants**, through the use, for example, of WAF templates, to employ specific capabilities, along, for example... ..parameter data to reflect the elements of one or more express electronic agreements between WAF **participants** in regards to the use of electronic content such as commercially distributed products. These control... ..an Internet repository, or electronic catalog shopping and advertising, or some combination of the above) **participants** would be able to securely select from amongst available, alternative control methods and apply related... ..certified as securely interoperable and compatible with said application may be independently submitted by a **participant** as part of such a contribution. In the most general example, a generally certified load ...from an automated electronic process during which terms and conditions are "evaluated" by certain WAF **participant** control information that assesses whether certain other electronic terms and conditions attached to content and... ..in a table of terms and conditions and the submitted control information of a subsequent **participant** in a pathway of content control information handling, or it may be a more elaborate... ..more parties. WAF also accommodates a semi-automated process during which one or more WAF **participants** directly, through user interface means, resolve "disagreements" between control information sets by accepting and/or... ..for securely controlling WAF content usage, auditing, reporting and/or payment. Similarly, a specific WAF **participant** may enter into a WAF user agreement with a WAF content or electronic appliance provider ...a metering and control application program that supports limited, largely fixed functionality.

Furthermore, WAF permits **participants** to develop business models not feasible with non-electronic commerce, for example, involving detailed reporting... ..points, "pass-along" control information that is enforced without involvement or advance knowledge of the **participants**, etc,



The present invention allows content providers and users to formulate their transaction environment to... ..and therefore overall WAF extended agreements, to evolve and reshape over time as additional WAF **participants** become involved in WAF content and/or appliance control information handling. WAF electronic agreements may also be extended as new control information is submitted by existing **participants**. With WAF, electronic commerce **participants** are free to structure and restructure their electronic commerce business activities and relationships. As a...with other aspects of the present invention, securely, independently delivered control components allow electronic commerce **participants** to freely stipulate their business requirements and trade offs. As a result, much as with... ..present invention allows electronic commerce (through a progressive stipulation of various control requirements by WAF **participants**) to evolve into forms of business that are the most efficient, competitive and useful.

WAF... ..consistent, and familiar. In addition, a rational approach--a transaction/distribution control standard--allows all **participants** in WAF the same foundation set of hardware control and security, authoring, administration, and management... ..distributed tools, mechanisms, and consistent user interfaces, regardless of the type of WAF activity.

WAF **participants** in a commercial value chain can be "commercially" confident (that is, sufficiently confident for commercial... ..such as governments, financial credit providers, and users).

WAF allows the needs of electronic commerce **participants** to be served and it can bind such **participants** together in a universe wide, trusted commercial network that can be secure enough to support... ..collection of distributed, very secure WAF related hardware instances that are interconnected by secured information **exchange** (for example, telecommunication) processes and distributed database means.

WAF further includes highly configurable transaction operating ...such model control schemes can flevolve" as control information passes through the WAF installations of **participants** of a pathway of WAF content control information handling.

## CATALOG CAPABILITIES

Displays linkable pictures and... ..additional detail  
Integrates to centralized publishing for integrity  
Downloads infort-nation  
Tracks downloads for proactive **notification** (spec updates)

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As shown in Figure 54, operation 5402 outputs data relating to at...  
...data would be downloaded to ensure the correctness and currentness of the information.

A proactive **notification** could also be made near the time of download, such as when updates to a... ..Other options include scrollable menus, etc. In operation 5504, a payment is then accepted in **exchange** for the

predetermined set of items. Such predetermined set of items is then stored in...Figure 54. The competing products may or may not have been manufactured by competing business **entities**. More detail is provided in Figure 56. First, in operation 5600, a customer's profile... ..from the customer's profile may be performed in operation 5701. The features NEEDS ASSESSMENT/BUYER ASSISTANT

Interacts with users to understand their needs

Provides solutions based on user needs (capacity... ..a thesaurus to find keyword matches in operation 5906. A payment is then accepted in **exchange** for the solution in operation 5810 of Figure 58, as will be discussed in more...thereof for display purposes in operation 6006.

Further, in operation 6008, payment is accepted in **exchange** for the selected items and the selected features thereof. It should be noted that in... ..example, Netscape Communications uses its Navigator/Netsite World Wide Web (WWW) browser/server pair. A **buyer** uses a Navigator to select a **seller's** Netsite server (sort of an electronic storefront), which is in turn coupled to standard... ..for collecting demographic information on customers. These

servers contain the business rules defined by the **seller**, e.g., what credit cards are accepted and what customer information is tracked during each...handling currency while adding the inherent delays associated with processing checks. To this end, economic **exchange** has striven for greater convenience at a lower cost, while also seeking improved security.

Automation... ..computerized electronic funds transfer (1IEFT11) systems. Electronic funds transfer is essentially a process of value **exchange** achieved through the banking system's centralized computer transactions. EFT services are a transfer of...special purpose development tools for developing specific types of applications.

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For example, the Information **Exchange** Facility (IEF) general development tool, which is available from Texas Instruments, is used by professional...select the items for purchase, as indicated by operation 6104. Payment is then accepted in **exchange** for the selected items in operation 6105. While the virtual shopping environment is being used...that are tailored include price and availability of the items. Payment is then accepted in **exchange** for the selected items in operation 6310, as discussed in more detail below.

The virtual...a product, or the order is placed with a provider of an ordered service.

Optionally, **notification** may be sent to the user to **notify** the user that the transaction is being completed or confirmation that the order has been...licensing, the vendor may sell several identical copies of the same software and charge the **buyer** for each copy.

Licensing schemes have adapted to the network environment as well as the...time, a license may also be for a limited duration and extendable,

so that the **entity** marketing the product can charge a periodic fee (for example, annually) for use of the... ..under which one might charge a single fee per server or per site or per **entity**, often on an individually negotiated basis, these approaches are often impractical or inflexible, in that...two or more parties. As a result, WAF can construct an electronic agreement between WAF **participants** that represent a "negotiation" between, the control requirements of, two or more parties and enacts... ..agreements may, at times, not directly obligate or otherwise directly involve other WAY value chain **participants**. For example, an electronic agreement between a content creator and a distributor may establish both...

### Claims:

...nagement Management ani  
 PlanningEnd to end process visibility and harmonizationNew  
 Capabilities202 E -<B>Collaborative</B> 0 <B>Collaborative</B> 0  
 Increased visibility E Life cycle 0 Proacmanagement forecasting  
 management maru0 Tracking and0 Milestone based 0 <B>Collaborative</B>  
 status N Asset tracking N Scha:3 project planning network roll-out N  
 Order capture... ..Supply inforHardware compliance m Technolo=3C:  
 Services Coordination a Amount visib:M 0 <B>Collaborative</B> <B>Capacity  
 Planning 0 Product0 Reverse inventory launch/rolloutmanagement 0  
 Technology0 Technology SharingsharingMain Enablers <B>Collaborative</B> 0  
 Supply chain E Electronic order N Asset tracking tool 0 Parupplanning  
 tool planning ... ..indegredation -7Restoratione r startIstop I-)P. of  
 capacity, utilisation andProvisioni monitoring - provide  
 <B>notification</B> capacity request Network Planninge r n \*[Design  
 & BuildperformanceManage-initiate TrafficusageY function...S1.1jILA  
 Terrus utosome QoS Management PoReportsHandling ompletion Schedule  
 customer reports 15021502 <B>Notification</B> Receive performance data A  
 'onsSL violEstablish reports to be generated Pran-n-e.... ..1500 Trouble  
 reportI m Status reports ltna emen Trouble Resolution notifica ion  
 1302<B>notification</B> <B> ISroblern Handling Problem reports  
 jemustomerrenct)rSLAReceive trouble nolicationsDetermine cause and  
 resolveRefer.... ..reconfigure, if needed reconfigurationnot ca onIdeta  
 Generate trouble tickets to suppliersConfirm trouble cleared,  
 <B>notify</B> customer [Other providerSchedule with and <B>notify</B>  
 customer ofr v r Trouble erl mtrp -1le@i@eTrouble @F  
 1306<B>notification</B>' <B>notification</B>1302 em Troublecleared SLA  
 violationsMle Dahge nalifications andnWhen a trouble.... ..inform the  
 customer of the p 1919.'n qbFigure 2121/129Receiving a  
 <B>notification</B> of aproblem within a hybrid networkI F2202Determining  
 a resolution for the...the Correlated First and SecondEventsFigure  
 4545/129462646464632 4630 4628 <B>Notification</B> Reads@ SOL Loader@ (   
 4644 Script1602 Aliplananumeric Pag=e4-ReadsS Mad Utility NewT...e latMld  
 SuNeyse C) publishing) Emming --ACCDurNe:Ts Assessment l @ F  
 ectrone7-icense <B>BuyerAssistant</B> =n Os Events. Cate Re=  
 SF4entL@lizatkn In'ion CapabiAdmini3tratie.... ..USER TO SELECT A

PREDETERMINED SET OF THE ITEMS FORPURCHASE5502ACCEPTING PAYMENT IN  
 <B>EXCHANGE</B> FOR THE PREDETERMINED SET OF ITEMS 5504STORING THE  
 PREDETERMINED SET OF ITEMS 5506ALLOWING...REQUIREMENTS-"JI DISPLAYING  
 THE AT LEAST ONE RECOMMENDED SOLUTION5808ACCEPTING PAYMENT IN  
 <B>EXCHANGE</B> FOR THE AT LEAST ONE SOLUTIONFigure 58  
 581058/129PREASSOCIATING ITEMS WITH KEYWORDS... ..FOLLOWING A USER TO  
 SELECT THE ITEMS FOR PURCHASE6104FACCEPTING PAYMENT IN <B>EXCHANGE</B>  
 FOR THE SELECTED ITEMS6106Figure 6161/129PREASSOCIATING ADVERTISEMENTS  
 WITH INDIVIDUAL ITEMS OR... ..THE USER TO SELECT THE AT LEAST ONE ITEM  
 FOR PURCHASE6308ACCEPTING PAYMENT IN <B>EXCHANGE</B> FOR THE SELECTED  
 ITEMFigure 63631063/129ALLOWING A USER TO REQUEST TO... ..ON THE PRODUCT  
 BASED ON QUERIES404HANDLING CLAIMS RELATING TO THE PRODUCTAUTOMATICALLY  
 <B>NOTIFYING</B> USERS OF AT LEAST ONE OF UPGRADES AND 740PROBLEMS  
 RELATING TO THE PRODUCT5312... Services9004,"@. ElectronicMerchandising  
 9018Security9014 9012Figure 9091029106r- n c <B>Buyer</B>-Centric  
 Auctionn Solution (Broker)SolutionCDe ornmerce Application & nlling  
 els 09000 9... ..CONTENTAREAS10204DCA210206DCA3Figure 102HTIVIL  
 TEMPLATE95/129MONITORING OPERATION OF <B>ENTITIES</B> SELECTED FROM THE  
 10402GROUP CONSISTING OF SERVER PROCESSES, DISK SPACE.MEMORY  
 AVAILABILITY, CPU UTILIZATION... ..COMMERCESYSTEMrUPDATING ITEMS  
 SELECTED FROM THE GROUP CONSISTING OF 10404MERCHANDISING CONTENT,  
 CURRENCY <B>EXCHANGE</B> RATES, TAXRATES, AND PRICING IN THE E-COMMERCE  
 SYSTEM ATPREDETERMINED INTERVALS10406SYNCHRONIZING...OF THE  
 USER11208SECURING A CLIENT ENVIRONMENT BY USING AUTHORIZATIONMODELS TO  
 DETERMINE WHICH <B>ENTITIES</B> CAN ACCESS SPECIFICAPPLICATIONS, DATA,  
 AND RESOURCES ON A CLIENTFI11210SECURING A... ..THE FIRSTUSER FROM THE  
 TOTAL AMOUNT OF BANDWIDTH ALLOCATEDTO THE FIRST USER12906<B>NOTIFYING</B>  
 THE FIRST USER OF THE AMOUNT OF UNUSEDBANDWIDTH12908SENDING A REQUEST  
 ASKING WHETHER... ..THAT THE FIRST USER WOULD LIKE TO SELL ORTRADEFigure  
 130116/129RECEIVING <B>NOTIFICATION</B> OF AN AGREEMENT TO SELL UNUSED I  
 31 00BANDWIDTH FOR AN AMOUNT OF MONEY...13304-'@Figure 1331  
 19/129RECEIVING TERMS REGARDING A REALLOCATION OFBANDWIDTH FROM A  
 <B>SELLER</B> TO A <B>BUYER</B>WDetermining AN AMOUNT OF MONEY THE  
 <B>BUYER</B> OWES THE 13402<B>SELLER</B> FOR THE REALLOCATED BANDWIDTH  
 BASED ON THETERMS REGARDING THE REALLOCATION OF BANDWIDTH13404  
 <B>NOTIFYING</B> THE <B>BUYER</B> OF THE AMOUNT OF MONEY THE  
 <B>BUYER</B>OWES THE <B>SELLER</B>Figure 134120/129@ 1351 13512OTHER  
 MARKETMAKERSTRADERT1 T213503504 3514...

**Dialog eLink: Order File History**

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00806383

**COLLABORATIVE CAPACITY PLANNING AND REVERSE INVENTORY MANAGEMENT DURING  
DEMAND AND SUPPLY PLANNING IN A NETWORK-BASED SUPPLY CHAIN ENVIRONMENT**

**AND METHOD THEREOF**

PLANIFICATION EN **COLLABORATION** DES CAPACITES ET GESTION ANTICIPEE DES STOCKS LORS DE LA PLANIFICATION DE L'OFFRE ET DE LA DEMANDE DANS UN ENVIRONNEMENT DE CHAINE D'APPROVISIONNEMENT FONDEE SUR LE RESEAU ET PROCEDE ASSOCIE

**COLLABORATIVE** CAPACITY PLANNING AND REVERSE INVENTORY MANAGEMENT DURING DEMAND AND SUPPLY PLANNING IN A NETWORK-BASED...

PLANIFICATION EN **COLLABORATION** DES CAPACITES ET GESTION ANTICIPEE DES STOCKS LORS DE LA PLANIFICATION DE L'OFFRE ET...

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**Detailed Description:**

## **COLLABORATIVE CAPACITY PLANNING AND REVERSE INVENTORY MANAGEMENT DURING DEMAND AND SUPPLY PLANNING IN A NETWORK BASED...**

...The present invention relates to e-Commerce-based supply chains and more particularly pertains to **collaborative** capacity planning during demand and supply planning in a network-based supply chain...  
...As these features have become widely available in local telecommunications equipment, such as private branch **exchange** (PBX) telephone switches, central offices, key and hybrid telephone systems (small telecommunications switches), call accounting... Commerce environment.

### **SUMMARY OF INVENTION**

A system, method and article of manufacture are provided for **collaborative** capacity planning during demand and supply planning in a network-based supply chain. Data access...network access to several of customers in order to share specifications, distribute engineering designs, and **collaborate** on works in progress;

Figure 1 6 depicts another exemplary Security Architecture in the...that is a model of some aspects of reality, whether that reality is a physical **entity**, a process, a system, or a composition of matter. Since the object can represent anything... framework of class libraries. This framework is more complex and consists of significant collections of **collaborating** classes that capture both the small scale patterns and major mechanisms that implement the common...are utilized to manage installations in operation 708.

In an embodiment of the present invention, **collaboration** between the matched service provider and the manufacturer may also be managed. In such an embodiment, the management of **collaboration** may include facilitating the transmitting of information between the matched service provider and the manufacturer utilizing the network. In an aspect of this embodiment, a 1 5 **collaborative** planning tool may be provided for managing the **collaboration** between the matched service provider and the manufacturer.

In another embodiment of the present invention...to one another in operation 806 and 33

In an embodiment of the present invention, **collaborative** forecasting may also be facilitated between service providers and manufacturers utilizing the network. In another embodiment of the present invention, **collaborative** network roll-out and planning utilizing the network may be facilitated between service providers and manufacturers. As an option, a roll-out planning tool may be provided for facilitating **collaborative** network roll-out and planning between the service providers and the manufacturers utilizing the network... and the service providers utilizing the network.

In even another embodiment of the present invention, **collaborative** capacity planning may also be facilitated between service providers and

manufacturers utilizing the network. In one aspect of this embodiment, a production planning tool may be provided for facilitating the **collaborative** capacity planning. In yet a further embodiment of the present invention, reverse inventory management may...include automatically placing an order with the suppliers based on the order information through a **communication** network connecting the central management unit to each of the suppliers. It should be noted... to each other; they share data by using the server. While this type of data **exchange** will continue, much more of the information flow in tomorrow's networks will be peer...of a suite of best of breed third party software products that automate problem diagnosis, **notification**, custom-developed reporting, and IP services

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solution vision.

Web-Based SLA Reporting Tool - is... intelligence in order to address communication over mixed media types, control of multiple session characteristics, **collaborative** communications needs, ubiquitous network access, "any to any" communications, and multimedia delivered information services. Note... rating and billing.

This process ensures that the Network Performance goals are tracked, and that **notification** is provided when they are not met (threshold exceeded, performance degradation). This also includes thresholds... ..this process responds to performance inquiries from the customer. For SLA violations, the process supports **notifying Problem Handling** and for QoS violations, **notifying Service Quality Management** 1304.

The aim is to provide effective monitoring. Monitoring and reporting must... ..1800, a hybrid network event is received which may include customer inquiries, required reports, completion **notification**, quality of service terms, service level agreement terms, service problem data, quality data, network performance...repair or restoration activity. This process is also responsible for any service-affecting problems, including.

**notifying** the customer in the event of a disruption (whether reported by the customer or not... ..Problem Handling Management Process in accordance with a preferred embodiment. First, in step 2200, a **notification** of a problem within a hybrid network is received by the system. Next, in step... ..problem within the hybrid network is determined. The resolution may include a status report, resolution **notification**, **problem** reports, service reconfiguration, trouble **notification**, service level agreement violations, and/or outage **notification**. Finally, in step 2204, the progress of the implementation of the resolution is tracked.

The... ..for the tailored capabilities of each customer, the event

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driver, collector and manager analyze **notification** events generated by the system. When a **notification** event is received the system analyzes the event and uses it to identify the customer. The **notification** event is also used to credit the customer if they experience a non-impacting ...event that breaches the customer's contract. In addition to the system itself generating the **notification** event, the customer is also able to **notify** the provider directly should such an event occur.

Figure 27 is a flowchart illustrating media... ..switch transmits the call to a destination location, which may be another switch, a local **exchange** carrier, or a private branch **exchange**. The call is transmitted over a transmission line referred to as the terminating port, or...customer, but can also be shared by multiple network customers. A network customer is an **entity** that leases network resources. In step 4104, if the current switch determines that the trunk...users existing profile information. The custom profile allows a user to store frequent conference call **participants** information. The profile contains **participant's** telephone numbers (which could be DDD, IDDD, rP Address or Cellular phone number), E...in place, the microphone captures analog signals, and the signals are transmitted to the Local **Exchange** Carrier (LEC) Central Office (CO) in analog form over an analog loop. The analog signal...the ISP.

#### Internet Service Potential

Real-time view of the status of each conference call **participant**, ANI and an alphanumeric representation to identify each **participant** entered by the initiator when a call is "reserved" can be displayed on screen as **participants** connect to conference. This information is captured as part of the call record set forth...number of event lists and views, all of which are highly customizable by each operator.

**Notification** Spooler 4622 - A custom provided sub-component which spools 'ob-files that which events have... ..received by the Netcool Object Server and may need to result in one or more **notification** actions. Each job is stored as a file in a special **notification** spool directory.

**Notification** Actor 4626 - A custom provided sub-component which determines the alert time, source node, and alert type from the loaded spooled job and initiates **notification** actions based as specified in the configuration file.

**Notification** actions include alphanumeric pages, trouble tickets, email, and resolution scripts. Multiple **notification** actions can be specified in the configuration files such that different actions are taken for... ..Telanion TelAlert via modem dialing the relevant paging provider. The alphanumeric page message provides contextual **notification** of actions to be performed. Context can include any information but frequently contains information such... ..using the UNIX mail utility.

The mail message is frequently used to provide non-urgent **notification** of situations or actions automatically performed by the MNSIS architecture



along with detailed context.

Local...in place, the microphone captures analog signals, and the signals are transmitted to the Local **Exchange** Carrier (LEC) Central Office (CO) in analog form over an analog loop. The analog signal...applications (application models) that have more or less configurability which can be shaped by WAF **participants**, through the use, for ...parameter data to reflect the elements of one or more express electronic agreements between WAF **participants** in regards to the use of electronic content such as commercially distributed products. These control... ..an Internet repository, or electronic catalog shopping and advertising, or some combination of the above) **participants** would be able to securely select from amongst available, alternative control methods and apply related... ..certified as securely interoperable and compatible with said application may be independently submitted by a **participant** as part of such a contribution. In the most general example, a generally certified load ... ..from an automated electronic process during which terms and conditions are "evaluated" by certain WAF **participant** control information that assesses whether certain other electronic terms and conditions attached to content and... ..in a table of terms and conditions and the submitted control information of a subsequent **participant** in a pathway of content control information handling, or it may be a more elaborate... ..or more parties. WAF also accommodates a semiautomated process during which one or more WAF **participants** directly, through user interface means, resolve "disagreements" between control information sets by accepting and/or... ..for securely controlling WAF content usage, auditing, reporting and/or payment. Similarly, a specific WAF **participant** may enter into a WAF user agreement with a WAF content or 1 5 electronic...a metering and control application program that supports limited, largely fixed functionality.

Furthermore, WAF permits **participants** to develop business models not feasible with non-electronic commerce, for example, involving detailed reporting... ..points, "pass-along" control information that is enforced without involvement or advance knowledge of the **participants**, etc.

The present invention allows content providers and users to formulate their transaction environment to... ..and therefore overall WAF extended agreements, to evolve and reshape over time as additional WAF **participants** become involved in WAF content and/or appliance control information handling. WAF electronic agreements may also be extended as new control information is submitted by existing **participants**. With WAF, electronic commerce **participants** are free to structure and restructure their electronic commerce business activities and relationships. As a... ..with other aspects of the present invention, securely, independently delivered control components allow electronic commerce **participants** to freely stipulate their business requirements and trade offs. As a result, much as with... ..present invention allows electronic commerce (through a progressive stipulation of various control requirements by WAF **participants**) to evolve into forms of business that are the most

efficient, competitive and useful.

WAF... ..consistent, and familiar. In addition, a rational approach--a transaction/distribution control standard--allows all **participants** in WAF the same foundation set of hardware control and security, authoring, administration, and management... ..distributed tools, mechanisms, and consistent user interfaces, regardless of the type of WAF activity.

WAF **participants** in a commercial value chain can be "commercially" confident (that is, sufficiently confident for commercial... ..such as governments, financial credit providers, and users).

WAF allows the needs of electronic commerce **participants** to be served and it can bind such **participants** together in a universe wide, trusted commercial network that can be secure enough to support... ..collection of distributed, very secure WAF related hardware instances that are interconnected by secured information **exchange** (for example, telecommunication) processes and distributed database means.

WAF further includes highly configurable transaction operating ...such model control schemes can  
ffevolve" as control information passes through the WAF installations of **participants** of a pathway of WAF content control information handling.

#### CATALOG CAPABILITIES

Displays linkable pictures and... ..for additional detail

Integrates to centralized publishing for integrity

Downloads information

Tracks downloads for proactive **notification** (spec updates)

As shown in Figure 54, operation 5402 outputs data relating to at least... ..data would be downloaded to ensure the correctness and currentness of the information..

A proactive **notification** could also be made near the time of download, such as when updates to a...Figure 54. The competing products may or may not have been manufactured by competing business **entities**. More detail is provided in Figure 56. First, in operation 5600, a customer's profile...from the customer's profile may be performed in operation 5701. The features NEEDS ASSESSMENT/ **BUYER ASSISTANT**

Interacts with users to understand their needs

Provides solutions based on user needs (capacity... ..to find keyword 15 matches in operation 5906. A payment is then accepted in **exchange** for the solution in operation 5810 of Figure 58, as will be discussed in more... ..thereof for display purposes in operation 6006. Further, in operation 6008, payment is accepted in **exchange** for the selected items and the selected features thereof. It should be noted that in...

...example, Netscape Communications uses its Navigator/Netsite World Wide Web (WWW) browser/server pair. A **buyer** uses a Navigator to select a **seller's** Netsite server (sort of an electronic storefront), which is in turn coupled to

150... ..for collecting demographic information on customers. These

servers contain the business rules defined by the **seller**, e.g., what credit cards are accepted and what customer information is tracked during each...handling currency while adding the inherent delays associated with processing checks. To this end, economic **exchange** has striven for greater convenience at a lower cost, while also seeking improved security.

Automation... ..computerized electronic funds transfer ("EFT") systems. Electronic funds transfer is essentially a process of value **exchange** achieved through the banking system's centralized computer transactions. EFT services are a transfer of...sophisticated special purpose development tools for developing specific types of applications.

For example, the Information **Exchange** Facility (IEF) general development tool, which is available from Texas Instruments, is used by professional... ..select the items for purchase, as indicated by operation 6104. Payment is then accepted in **exchange** for the selected items in operation 6105. While the virtual shopping environment is being used...that are tailored include price and availability of the items. Payment is then accepted in **exchange** for the selected items in operation 6310, as discussed in more detail below.

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The...a product, or the order is placed with a provider of an ordered service. Optionally, **notification** may be sent to the user to **notify** the user that the transaction is being completed or confirmation that the order has been...licensing, the vendor may sell several identical copies of the same software and charge the **buyer** for each copy.

Licensing schemes have adapted to the network environment as well as the...time, a license may also be for a limited duration and extendable, so that the **entity** marketing the product can charge a periodic fee (for example, annually) for use of the...under which one might charge a single fee per server or per site or per **entity**, often on an individually negotiated basis, these approaches are often impractical or inflexible, in that... ..two or more parties. As a result, WAF can construct an electronic agreement between WAF **participants** that represent a "negotiation" between, the control requirements of, two or more parties and enacts... ..support evolving ("living") electronic agreement arrangements that can be modified by current and/or new **participants** through very simple to sophisticated "negotiations" between newly proposed content control information interacting with control...and (e) "living" electronic information content dissemination models that flexibly accommodate.

(1) a breadth of **participants**,

(2) one or more pathways (chains) for: the handling of content, content and/or appliance.... ..Provides real-time invoice status  
Provides history of previous orders and delivery information  
Ensures proactive **notification** of order/shipping problems  
Referring to operation 5418 of Figure 54, a status of delivery...

...problems encountered relating to the order or shipping of the order are result in proactive **notification** of the problem to the user. As an option, the history of previous orders and... ..analysis of auction histories could also be provided.

Economic activity has at its centerpiece the **buyer-seller** transaction for all goods and services produced and consumed in a market economy. It is ... ..to which resources are allocated to producers and output to consumers. The operation of the **buyer-seller** mechanism can and often is a critical determination of economic efficiency and when operated properly... ..enhance market performance.

Through history, there have been many different approaches adopted to fairly bring **buyers** and **sellers** together, each with the key objective of permitting transactions at or as close as possible... ..can only be accomplished by permitting full access to the transaction by essentially all potential **buyers** and **sellers**. However, the **buyer-seller** transaction must be structured to operate at very low costs--or it will distort the... ..the artificially high transactions costs. Thus, as can be seen, the two keys to effective **buyer/seller** transactions--full access and knowledge coupled with low costs--can be and are often conflicting ... ..date is indistinguishable from other 30-year treasuries having the same properties. Accordingly, the price **buyers** are willing to pay and **sellers** willing to accept defines the market price of all 30-year treasury bonds of that same...size and diversity of the treasury market implicates an unprecedented level of sophistication by market **participants** in the bidding, offering, buying, and selling transactions involving these securities. The very complexity... ..with the transactions and the scale of trading undertaken by banks, brokers, dealers and institutional **participants** necessitates a rigidly structured approach to trading.

In the past, open outcry auction bond brokering... ..with a collection of customers to create and manage a market. Typical customer representatives--both **buyers** and **sellers**--at a common location (e.g., a single room) where the representatives of the customers...access to published documents  
Facilitates discussions across multiple discussion groups  
Finds information with search and **notification** tools  
Allows participation in discussions via email  
Allows forum moderation by users and administrators  
Allows... related sites and published documents.

Also, search capabilities could be provided to search for information. **Notification** tools may inform a user of various events, such as when a particular discussion is... ..s input criteria.

#### CHAT CAPABILITIES IN REAL TIME

Provides public and private mess ages  
Provides **Collaborative** Web touring, URL pasting  
Allows dynamic (public/private) room creation  
Notifies users if another user... ..component of the present invention.

Note operation 6608 of Figure 66. Such capabilities would permit **collaborative** web touring and URL pasting, for such things as permitting two or more users to simultaneously navigate the web. The invention may **notify** a user when another user is online. Further, chat rooms could be dynamically created which...

## Claims:

1 A method for **collaborative** capacity planning during demand and supply planning in a network-based supply chain, comprising the... ..storing capacity data utilizing the network includes replication and synchronization capabilities.

10 A system for **collaborative** capacity planning during demand and supply planning in a network-based supply chain, comprising:(a... ..data utilizing the network.

11 A computer program embodied on a computer-readable medium for **collaborative** capacity planning during demand and supply planning in a network-based supply chain, comprising:(a... ..anagement Managernen ancPlanningEnd to end process visibility and harmonizationNew Capabilities202 0 <B>Collaborative</B> 0 <B>Collaborative</B> 0 Increased visibility X Life cycle 0 Proacmanagement mana,management forecasting 0 Tracking and0 Mlesbonebased 0 <B>Collaborative</B> status N Asset tracking N Schedproject planning network roll-out plann0 Order capture... ..Capacity N IncreinfoHrHardware 0 supply Lomplianc a TechnologyCoordination visibi.Services \* AmountN <B>Collaborative</B>:&gt; Capacity Planning E Productlaunch/rolloutE Reverse inventory0 Technologymanagement Sharing0 TechnologysharingMain EnableN <B>Collaborative</B> 0 Supply chain 0 Electronic order E Asset tracking tool N Plannplanning tool planning ...jNtwk Maintenandetermine performance instarVstop of capa ity, utilisation and degradation ' @Restorationmonitoring provide <B>notification</B> capacity request Network PlanningDperformance-initiate Trafficuszej network changes Networkc functionPe... ..erQaSMIA.Ter ustomer o ManagementReportsHandling 1502Completion Schedule customer reports1502 <B>Notification</B> Receive performance data A ' onsSL n v'o'L"Establish reports to be generated... ..reconfigure, if needed reconfiguration"@@notmi allon1detaill Generate trouble tickets to suppliers FConfirm trouble cleared, <B>notify</B> customer Lothar Lrovider ISchedule with and <B>notify</B> cus er o @Qla - TroubleTr@ ble. nned rntce- FServiceotification notificatio 13061302 uble...order to inform the customer of the pl2blqM.Figure 2121/130Receiving a <B>notification</B> of aproblem within a hybrid networkhis2202Determining a resolution for theproblem...the Correlated First and SecondEventsFigure 4545/1304632 4630 4628 46264646<B>Notification</B> Reads@ SOL Leader4602 4644 ScriptAtphammeric Page TeIAIReads7 Electronic Mail messa@gel... publishina)Events,

Calenciaring & nentFN dsAssessmen@f FleCl,or,CLense I I kview  
 & n; <B>Buyer</B> Assistant Distribution & n; FAQs Registration Teting  
 ToolsManagementSta-us I Order FLOC211zatf0....USER TO SELECT A  
 PREDETERMINED SET OF THE ITEMS FORPURCHASE550:ACCEPTING PAYMENT IN  
 <B>EXCHANGE</B> FOR THE PREDETERMINED SET OF ITEMS 5504STORING THE  
 PREDETERMINED SET OF ITEMS 5506ALLOWING... ..ON THE  
 USERREQUIREMENTSDISPLAYING THE AT LEAST ONE RECOMMENDED  
 SOLUTION58ofACCEPTING PAYMENT IN <B>EXCHANGE</B> FOR THE AT LEAST ONE  
 SOLUTIONFigure 58581058/130PREASSOCIATING, ITEMS WITH KEYWORDS...  
 ...SELECTED ITEMS AND THESELECTED FEATURES THEREOF AND DISPLAYING THE  
 SAMEFACCEPTING PAYMENT IN <B>EXCHANGE</B> FOR THE SELECTED ITEMS AND  
 THESELECTED FEATURES THEREOF 60MFigure 6060/130DISPLAYING...  
 ...6103ALLOWING A USER TO SELECT THE ITEMS FOR PURCHASE6104ACCEPTING  
 PAYMENT IN <B>EXCHANGE</B> FOR THE SELECTED ITEMS6106Figure  
 6161/130PREASSOCIATING ADVERTISEMENTS WITH INDIVIDUAL ITEMS OR...  
 INFORMATION ON THE PRODUCT BASED ON QUERIES14UHANDLING CLAIMS RELATING TO  
 THE PRODUCTAUTOMATICALLY <B>NOTIFYING</B> USERS OF AT LEAST ONE OF  
 UPGRADES AND 7406PROBLEMS RELATING TO THE PRODUCT5312... Ingernd  
 9018Security9014 9012Figure 9091029106e er- nt c <B>Buyer</B>-Centrlc  
 AuctionSolution Solution (Broker)Solution (DOrce lling Models 09000  
 =13... CONTENTAREAS10204DCA210206DCA3Figure 102HTML  
 TEMPLATE95/130MONITORING OPERATION OF <B>ENTITIES</B> SELECTED FROM THE  
 10402GROUP CONSISTING OF SERVER PROCESSES, DISK SPACE,MEMORY  
 AVAILABILITY, CPU UTILIZATION.... ..SYSTEMA FUPDATING ITEMS SELECTED FROM  
 THE GROUP CONSISTING OF 10404MERCHANDISING CONTENT, CURRENCY  
 <B>EXCHANGE</B> RATES, TAXRATES, AND PRICING IN THE E-COMMERCE SYSTEM  
 ATPREDETERMINED INTERVALS10406SYNCHRONIZING... ..OF THE  
 USER11208SECURING A CLIENT ENVIRONMENT BY USING AUTHORIZATIONMODELS TO  
 DETERMINE WHICH <B>ENTITIES</B> CAN ACCESS SPECIFICAPPLICATIONS, DATA,  
 AND RESOURCES ON A CLIENTSECURING A SERVER ENVIRONMENT BY...FIRSTUSER  
 FROM THE TOTAL AMOUNT OF BANDWIDTH ALLOCATEDTO THE FIRST  
 USERJr12906<B>NOTIFYING</B> THE FIRST USER OF THE AMOUNT OF  
 UNUSEDBANDWIDTH12908SENDING A REQUEST ASKING WHETHER ... ..THAT THE  
 FIRST USER WOULD LIKE TO SELL ORTRADEFigure 130116/130RECEIVING  
 <B>NOTIFICATION</B> OF AN AGREEMENT TO SELL UNUSED 13100BANDWIDTH FOR AN  
 AMOUNT OF MONEY13102RECEIVING... ..3306 1330Figure 133119/130RECEIVING  
 TERMS REGARDING A REALLOCATION OFBANDWIDTH FROM A <B>SELLER</B> TO A  
 <B>BUYER</B>JrDETERMINING AN AMOUNT OF MONEY THE <B>BUYER</B> OWES THE  
 13402<B>SELLER</B> FOR THE REALLOCATED BANDWIDTH BASED ON THE TERMS  
 REGARDING THE REALLOCATION OF BANDWIDTHJr<B>NOTIFYING</B> THE  
 <B>BUYER</B> OF THE AMOUNT OF MONEY THE <B>BUYER</B> 13404OWES THE  
 <B>SELLER</B>Figure 134120/1301351 13512OTHER MARKETMAKERSTRADERAtI  
 T1213503504...

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00806382

**METHOD FOR AFFORDING A MARKET SPACE INTERFACE BETWEEN A PLURALITY OF MANUFACTURERS AND SERVICE PROVIDERS AND INSTALLATION MANAGEMENT VIA A MARKET SPACE INTERFACE**

PROCEDE DE MISE A DISPOSITION D'UNE INTERFACE D'ESPACE DE MARCHÉ ENTRE UNE PLURALITE DE FABRICANTS ET DES FOURNISSEURS DE SERVICES ET GESTION D'UNE INSTALLATION VIA UNE INTERFACE D'ESPACE DE MARCHÉ

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**Detailed Description:**

...As these features have become widely available in local telecommunications equipment, such as private branch **exchange** (PBX)

available

telephone switches, central offices, key and hybrid telephone systems (small telecommunications switches), call...Process in accordance with a preferred embodiment;

Figure 21 shows a block diagram of the **Problem** Handling Process in accordance with a

preferred embodiment;

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Figure 22 is a flowchart illustrating...network access to several of customers in order to share specifications, distribute engineering designs, and **collaborate** on works in progress;

Figure 116 depicts another exemplary Security Architecture in the scenario of...that is a model of some aspects of reality, whether that reality is a physical **entity**, a process, a system, or a composition of matter. Since the object can represent anything... ..framework of class libraries. This framework is more complex and consists of significant collections of **collaborating** classes that capture both the small scale patterns and major mechanisms that implement the common...are utilized to manage installations in operation 708.

In an embodiment of the present invention, **collaboration** between the matched service provider and the manufacturer may also be managed. In such an embodiment, the management of **collaboration** may include facilitating the transmitting of information between the matched service provider and the manufacturer utilizing the network. In an aspect of this embodiment, a **collaborative** planning tool may be provided for managing the **collaboration** between the matched service provider and the manufacturer.

In another embodiment of the present invention...future supply and demand for the manufacturer offerings.

In an embodiment of the present invention, **collaborative** forecasting may also be facilitated between service providers and manufacturers utilizing the network. In another embodiment of the present invention, **collaborative** network roll-out and planning utilizing the network may be facilitated between service providers and manufacturers. As an option, a roll-out planning tool may be provided for facilitating **collaborative** network roll-out and planning between the service providers and the manufacturers utilizing the network... ..and the service providers utilizing the network.

In even another embodiment of the present invention, **collaborative** capacity planning may also be facilitated between service providers and manufacturers utilizing the network. In one aspect of this embodiment, a production planning tool may be provided for facilitating the **collaborative** capacity planning. In yet a further embodiment ...to each other; they share data by using the server. While this type of data



**exchange** will continue, much more of the information flow in tomorrow's networks will be peer...a suite of best of breed third party software products that

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automate problem diagnosis, **notification**, custom-developed reporting, and IP services monitoring. This solution template is a great first step...intelligence in order to address communication over mixed media types, control of multiple session characteristics, **collaborative** communications needs, ubiquitous network access, "any to any" communications, and multimedia delivered information  
6 1...rating and billing.

This process ensures that the Network Performance goals are tracked, and that **notification** is provided when they are not met (threshold exceeded, performance degradation). This also includes thresholds... ..this process responds to performance inquiries from the customer. For SLA violations, the process supports **notifying Problem** Handling and for QoS violations, **notifying** Service Quality Management 1304.

The aim is to provide effective monitoring. Monitoring and reporting must... ..1800, a hybrid network event is received which may include customer inquiries, required reports, completion **notification**, quality of service terms, service level agreement terms, service problem data, quality data, network performance...repair or restoration activity. This process is also responsible for any service-affecting problems, including.

**notifying** the customer in the event of a disruption (whether reported by the customer or not... ..Problem Handling Management Process in accordance with a preferred embodiment. First, in step 2200, a **notification** of a problem within a hybrid network is received by the system. Next, in step... ..problem within the hybrid network is determined. The resolution may include a status report, resolution **notification**, **problem** reports, service reconfiguration, trouble **notification**, service level agreement violations, and/or outage **notification**. Finally, in step 2204, the progress of the implementation of the resolution is tracked.

The... ..system for the tailored capabilities of each customer, the event driver, collector and manager analyze **notification** events generated by the system. When a **notification** event is received the system analyzes the event and uses it to identify the customer. The **notification** event is also used to credit the customer if they experience a non-impacting event that breaches the customer's contract. In addition to the system itself generating the

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**notification** event., the customer is also able to **notify** the provider directly should such an event occur.

Figure 27 is a flowchart illustrating media...switch transmits the call to a destination location, which may be another switch, a local **exchange** carrier, or a private branch **exchange**. The call is transmitted over a transmission line referred to as the terminating port, or...customer, but can also be shared by multiple network customers. A network customer is an **entity** that leases network resources. In

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step 4104, if the current switch determines that the...users existing profile information. The custom profile allows a user to store frequent conference call **participants** information. The profile contains **participant's** telephone numbers (which could be DDD, IDDD, IP Address or Cellular phone number), E...in place, the microphone captures analog signals, and the signals are transmitted to the Local **Exchange** Carrier (LEC) Central Office (CO) in analog form over an analog loop. The analog signal...the ISP.

#### Internet Service Potential

Real-time view of the status of each conference call **participant**, ANI and an alphanumeric representation to identify each **participant** entered by the initiator when a call is "reserved" can be displayed on screen as **participants** connect to conference. This information is captured as part of the call record set forth...number of event lists and views, all of which are highly customizable by each operator.

**Notification** Spooler 4622 - A custom provided sub-component which spools job-files that ify which events... ..received by the Netcool Object Server and may need to result in one or more **notification** actions. Each job is stored as a file in a special **notification** spool directory.

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**Notification** Actor 4626 - A custom provided sub-component which determines the alert time, source node, and alert type from the loaded spool led job and initiates **notification** actions based as specified in the configuration rile.

**Notification** actions include alphanumeric pages, trouble tickets, email, and resolution scripts. Multiple **notification** actions can be specified in the configuration files such that different actions are taken for... ..Telamon TelAlert via modem dialing the relevant paging provider. The alphanumeric page message provides contextual **notification** of actions to be performed. Context can include any information but frequently contains infor-nation...using the UNIX mail utility.

The mail message is frequently used to provide non-urgent **notification** of situations or actions automatically performed by the MNSIS architecture along with detailed context.

Local...in place, the microphone captures analog signals, and the signals are transmitted to the Local **Exchange** Carrier (LEC) Central Office (CO) in analog form over an analog loop. The analog signal...applications

(application models) that have more or less configurability which can be shaped by WAF **participants**, through the use, for example, of WAF templates, to employ specific capabilities, along, for example...  
...parameter data to reflect the elements of one or more express electronic agreements between WAF **participants** in regards to the use of electronic content such as commercially distributed products. These control... ..an Internet repository, or electronic catalog shopping and advertising, or some combination of the above) **participants** would be able to securely select from amongst available, alternative control methods and apply related... ..certified as securely interoperable and compatible with said application may be independently submitted by a **participant** as part of such a contribution. In the most general example, a generally certified load ... ..from an automated electronic process during which terms and conditions are "evaluated" by certain WAF **participant** control information that assesses whether

I 1 d/c

certain other electronic terms and conditions... ..a table of terms and conditions and the submitted control information of a subsequent **participant** in a pathway of content control information handling, or it may be a more... ..more parties. WAF also accommodates a semi-automated process during which one or more WAF **participants** directly, through user interface means, resolve "disagreements" between control information sets by accepting and/or...for securely controlling WAF content usage, auditing, reporting and/or payment. Similarly, a specific WAF **participant** may enter into a WAF user agreement with a WAF content or electronic appliance provider... ..a metering and control application program that supports limited, largely fixed functionality.

Furthermore, WAF permits **participants** to develop business models not feasible with non-electronic commerce, for example, involving detailed reporting... ..points, "pass-along" control information that is enforced without involvement or advance knowledge of the **participants**, etc.

The present invention allows content providers and users to formulate their transaction environment to...and therefore overall WAF extended agreements, to evolve and reshape over time as additional WAF **participants** become involved in WAF content and/or appliance control information handling. WAF electronic agreements may also be extended as new control information is submitted by existing **participants**. With WAF, electronic commerce **participants** are free to structure and restructure their electronic commerce business activities and relationships. As a... ..with other aspects of the present invention, securely, independently delivered control components allow electronic commerce **participants** to freely stipulate their business requirements and trade offs. As a result, much as with... ..present invention allows electronic commerce (through a progressive stipulation of various control requirements by WAF **participants**) to evolve into forms of business that are the most efficient, competitive and useful.

WAF... ..consistent, and familiar. In addition, a rational approach--a transaction/distribution control standard--allows all **participants** in WAF

the same foundation set of hardware control and security, authoring, administration, and management... ..distributed tools, mechanisms, and consistent user interfaces, regardless of the type of WAF activity.

WAF **participants** in a commercial value chain can be "commercially" confident (that is, sufficiently confident for commercial...such as governments, financial credit providers, and users).

WAF allows the needs of electronic commerce **participants** to be served and it can bind such **participants** together in a universe wide, trusted commercial network that can be secure enough to support... ..collection of distributed, very secure WAF related hardware instances that are interconnected by secured information **exchange** (for example, telecommunication) processes and distributed database means.

WAF further includes highly configurable transaction operating ... ..such model control schemes can lieivolve" as control information passes through the WAF installations of **participants** of a pathway of WAF content control information handling.

#### CATALOG CAPABILITIES

Displays linkable pictures and... ..for additional detail

Integrates to centralized publishing for integrity

Downloads information

Tracks downloads for proactive **notification** (spec; updates)

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As shown in Figure 54, operation 5402 outputs data relating to at...

...data would be downloaded to ensure the correctness and currentness of the information.

A proactive **notification** could also be made near the time of download, such as when updates to ification...Other options include scrollable menus, etc. In operation 5504, a payment is then accepted in **exchange** for the predetermined set of items. Such predetermined set of items is then stored in...Figure 54. The competing products may or may not have been manufactured by competing business **entities**. More detail is provided in Figure 56. First, in operation 5600, a customer's profile... ..from the customer's profile may be performed in operation 5701. The features NEEDS ASSESSMENT/**BUYER ASSISTANT**

Interacts with users to understand their needs

Provides solutions based on user needs (capacity...a thesaurus to find keyword matches in operation 5906. A payment is then accepted in **exchange** for the solution in operation 5810 of Figure 58, as will be discussed in more... ..thereof for display purposes in operation 6006. Further, in operation 6008, payment is accepted in **exchange** for the selected items and the selected features thereof. It should be noted that in...

...example, Netscape Communications uses its Navigator/Netsite World Wide Web (WWW) browser/server pair. A **buyer** uses a Navigator to select a **seller's** Netsite server (sort of an electronic storefront), which is in turn coupled to standard... ..for collecting demographic information on customers. These

servers contain the business rules defined by the **seller**, e.g., what credit cards are accepted and what customer information is tracked during each...handling currency while adding the inherent delays associated with processing checks. To this end, economic **exchange** has striven for greater convenience at a lower cost, while also seeking improved security.

Automation... ..computerized electronic funds transfer ("EFT") systems. Electronic funds transfer is essentially a process of value **exchange** achieved through the banking system's centralized computer transactions. EFT services are a transfer of...special purpose development tools for developing specific types of applications.

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For example, the Information **Exchange** Facility (IEF) general development tool, which is available from Texas Instruments, is used by professional...select the items for purchase, as indicated by operation 6104. Payment is then accepted in **exchange** for the selected items in operation 6105. While the virtual shopping environment is being used, advertisement...that are tailored include price and availability of the items. Payment is then accepted in **exchange** for the selected items in operation 6310, as discussed in more detail below.

The virtual...a product, or the order is placed with a provider of an ordered service.

Optionally, **notification** may be sent to the user to **notify** the user that the transaction is being completed or confirmation that the order has been...licensing, the vendor may sell several identical copies of the same software and charge the **buyer** for each copy.

Licensing schemes have adapted to the network environment as well as the...time, a license may also be for a limited duration and extendable, so that the **entity** marketing the product can charge a periodic fee (for example, annually) for use of the...under which one might charge a single fee per server or per site or per **entity**, often on an individually negotiated basis, these approaches are often impractical or inflexible, in that... ..two or more parties. As a result, WAF can construct an electronic agreement between WAF **participants** that represent a "negotiation" between, the control requirements of, two or more parties and enacts... ..agreements may, at times, not directly obligate or otherwise directly involve other WAF value chain **participants**. For example, an electronic agreement between a content creator and a distributor may establish both... ..credit to the end-user. A fifth, evolving agreement may develop between all value chain **participants** as content control information passes along its chain of handling. This evolving agreement can establish... ..support evolving ("living") electronic agreement arrangements that can be modified by current and/or new **participants** through very simple to sophisticated "negotiations" between newly proposed content control information interacting with

control...e) "living" electronic information content dissemination models that flexibly accommodate.

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(1) a breadth of **participants**,

(2) one or more pathways (chains) for: the handling of content, content and/or appliance...

## Claims:

...installations.

488. A method as recited in claim 19, further comprising the step of managing <B>collaboration</B> between the matched service provider and the manufacturer, wherein the management of <B>collaboration</B> includes facilitating the transmitting of information between the matched service provider and the manufacturer utilizing the network.

21 A method as recited in claim 20, wherein a **collaborative** planning tool is provided for managing the **collaboration** between the matched service provider and the manufacturer.

22 A method as recited in claim... ...A computer program as recited in claim 25, further comprising a code segment that manages **collaboration** between the matched service provider and the manufacturer, 489wherein the management of <B>collaboration</B> includes facilitating the transmitting of information between the matched service provider and the manufacturer utilizing the network.

27 A computer program as recited in claim 26, wherein a **collaborative** planning tool is provided for managing the **collaboration** between the matched service provider and the manufacturer.

28 A computer program as recited in... ...manage installations.

32 A system as recited in claim 31, further comprising logic that manages **collaboration** between the matched service provider and the manufacturer, wherein the management of 490 <B>collaboration</B> includes facilitating the transmitting of information between the matched service provider and the manufacturer utilizing the network.

33 A system as recited in claim 32, wherein a **collaborative** planning tool is providedfor managing the **collaboration** between the matched service provider and the manufacturer.

34 A system as recited in claim...Management Management i Management PlanningEnd to end process visibility and harmonizationNew Capabilities0 <B>Collaborative</B> 0 <B>Collaborative</B> N Increased visibility 0 Life cycle E Pi202 - - management forecasting N Tracking and management rn0 Westone based 0 <B>Collaborative</B> status 0 Asset tracking E S(project planning network roll-out 0 Order capture \* Growth... ...in4.U. \* Hardware E supply complianceCoordination \* Technology A\* Services 9

Amount(U 0 <B>Collaborative</B>Capacity Planning E ProductE Reverse  
inventory launch/rolloutmanagement 0 Technology0 Technology  
SharingsharingMain Enablers0 <B>Collaborative</B> N Supply chain N  
Electronic order 0 Asset tracking tool N Planning tool planning...  
...Maintenandetermine performance indegradation estorationr startstop of  
capacity, utilisation andProvisioni monitoring provide  
<B>notification</B> capacity request Network Planninge r n @Design &mp;  
BuildperformanceManagerl -initiate Trafficusagej...and resolvepreferTrack  
progress of resolution ServiceCompletion Initiate action to reconfigure,  
if needed reconfigurati<B>notification</B> /detail Generate trouble  
tickets to suppliersConfirm trouble cleared, <B>notify</B> customerer  
prov erSeagele with and <B>notify</B> customer oTrouble ned mtce- rv  
ceTrouble m 1306notificali1302SLA violationsISLA violations Outage  
<B>notification</B>Customer QoS Planned Mtc.Management Scheduling  
and<B>Notification</B>When a trouble is reported by the customer, a  
trouble report may be sent to... ..notified in order to inform the  
customer of the pfqt@IeEj.'Figure 21Receiving a <B>notification</B> of,  
aprobem within a hybrid network2202Determining a resolution for  
the problem withi...4608 4624 4640View GeneratesGenerates 4642HP OY  
Network OracleNode WanagerNetwak Map<B>Notification</B>Patrol  
SpoolerViewOVID API4604 AN 4612 01PA InterfaceAPI Aulum462  
externalSeagate... DISPLAYING A PLURALITY OF ITEMS FOR PURCHASE  
5500ALLOWING A USER TO SELECT A PREDETERMINED SET OF THE ITEMS FOR PURCHASE5502  
FACCEPTING PAYMENT IN <B>EXCHANGE</B> FOR THE PREDETERMINED SET OF ITEMS  
55045506STORING THE PREDETERMINED SET OF ITEMSALLOWING...THE USER  
5806REQUIREMENTSDISPLAYING THE AT LEAST ONE RECOMMENDED  
SOLUTIONS808ACCEPTING PAYMENT IN <B>EXCHANGE</B> FOR THE AT LEAST ONE  
SOLUTIONFigure 58 5810PREASSOCIATING ITEMS WITH KEYWORDS 5900SELECTING...  
...THE SELECTED ITEMS AND THESELECTED FEATURES THEREOF AND DISPLAYING THE  
SAMEACCEPTING PAYMENT IN <B>EXCHANGE</B> FOR THE SELECTED ITEMS AND  
THESELECTED FEATURES THEREOF 6008Figure 60DISPLAYING A PLURALITY...  
...PURCHASE 6103ALLOWING A USER TO SELECT THE ITEMS FOR  
PURCHASE6104ACCEPTING PAYMENT IN <B>EXCHANGE</B> FOR THE SELECTED  
ITEMS6106Figure 61PREASSOCIATING ADVERTISEMENTS WITH INDIVIDUAL ITEMS OR  
WITH 6200... ..USER TO SELECT THE AT LEAST ONE ITEM FOR PURCHASE6  
8ACCEPTING PAYMENT IN <B>EXCHANGE</B> FOR THE SELECTED ITEMFigure  
636310ALLOWING A USER TO REQUEST TO UTILIZE A... ..INFORMATION ON THE  
PRODUCT BASED ON QUERIES1404HANDLING  
CLAIMS RELATING TO THE PRODUCT  
AUTOMATICALLY <B>NOTIFYING</B> USERS OF AT LEAST ONE OF UPGRADES AND  
740PROBLEMS RELATING TO THE PRODUCT5312... Customer  
ServicesElectronic9004Merchandising 9018Security9014 9012Figure  
9091026910C <B>Buyer</B>-Centric rO F acornmerceSolution n (D  
Toolset0eComrnrm ling o es 090... ..CONTENTAREAS1 0204DCA2J  
10206DCA3Figure 102HTML TEMPLATEMONITORING OPERATION OF <B>ENTITIES</B>  
SELECTED FROM THE 10402GROUP CONSISTING OF SERVER PROCESSES, DISK  
-SPACE,MEMORY AVAILABILITY, CPU UTILIZATION...  
...E-COMMERCESYSTEMUPDATING ITEMS SELECTED FROM THE GROUP CONSISTING OF  
10404MERCHANDISING CONTENT, CURRENCY <B>EXCHANGE</B> RATES, TAXRATES, AND  
PRICING IN THE E-COMMERCE SYSTEM A PREDETERMINED  
INTERVALS10406SYNCHRONIZING...THE USER11208SECURING A CLIENT ENVIRONMENT

BY USING AUTHORIZATION MODELS TO DETERMINE WHICH ENTITIES CAN  
 ACCESS SPECIFIC APPLICATIONS, DATA, AND RESOURCES ON A CLIENT SECURING A  
 SERVER ENVIRONMENT... THE FIRST USER FROM THE TOTAL AMOUNT OF BANDWIDTH  
 ALLOCATED TO THE FIRST USER NOTIFYING THE FIRST USER OF THE  
 AMOUNT OF UNUSED BANDWIDTH SENDING A REQUEST ASKING WHETHER THE...  
 ...BANDWIDTH THAT THE FIRST USER WOULD LIKE TO SELL OR TRADE  
 RECEIVING NOTIFICATION OF AN AGREEMENT TO SELL UNUSED  
 BANDWIDTH FOR AN AMOUNT OF MONEY...  
 RECEIVING TERMS REGARDING A REALLOCATION OF BANDWIDTH FROM A  
 SELLER TO A BUYER DETERMINING AN AMOUNT OF MONEY THE  
 BUYER OWES THE SELLER FOR THE REALLOCATED BANDWIDTH  
 BASED ON THE TERMS REGARDING THE REALLOCATION OF  
 BANDWIDTH NOTIFYING THE BUYER OF THE AMOUNT OF MONEY THE BUYER  
 OWES THE SELLER  
 OTHER MARKET TRADER MAKERS  
 INSIDER MARKET CUSTOMER...

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